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Farm and Ranch Review

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NUMBER 12

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"The Night Before Xmas..."

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1948



Carols for Christmas



Are you one of those carol singers who start out so bravely on the first couple of lines and then get the mumbles, like this:

"Good King Wenceslas look'd out,
On the feast of Stephen—
Da-da da-da da da da
Du da du da du du.

There is nothing much that can be done about tone-deaf people who always seem to know all the words and sing carols at the top of their voices. Nor is there any solution for people who can't carry a tune. But it does occur to us that carol singing would be more fun all round if everybody knew the words. So here, to help our readers have more fun, and hence a happier Christmas, are the words to your favorite carols.



Hark! the Herald Angels Sing

Hark! the herald angels sing,
"Glory to the new-born King,"
Peace on earth and mercy mild,—
God and sinners reconciled!"
Joyful, all ye nations, rise,—
Join the triumph of the skies;—
With th' angelic host proclaim,
"Christ is born in Bethlehem!"
Hark! the herald angels sing,
"Glory to the new-born King."

Christ, by highest heaven adored,
Christ, the everlasting Lord,
Late in time behold Him come,
Offspring of the Virgin's womb.
Veiled in flesh the Godhead see;
Hail the Incarnate Deity,
Pleased as Man with man to dwell:
Jesus, our Emmanuel!
Hark! the herald angels sing,
"Glory to the new-born King."

Mild He lays His glory by,
Born that man no more may die;
Born to raise the sons of earth;
Born to give them second birth.
Risen with healing in His wings,
Light and life to all He brings.
Hail, the Son of Righteousness!
Hail, the heaven-born Prince of Peace!
Hark! the herald angels sing,
"Glory to the new-born King."



Silent Night! Holy Night!

Silent night! Holy night!
All is calm, all is bright,
Round yon Virgin Mother and Child!
Holy Infant so tender and mild,
Sleep in heavenly peace,—
Sleep in heavenly peace.

Silent night! Holy night!
Shepherds quake at the sight,
Glories stream from heaven afar,
Heavenly hosts sing Alleluia;
Christ, the Saviour, is born,
Christ, the Saviour, is born.

Silent night! Holy night!
Son of God, love's pure light
Radiant beams from Thy holy face,
With the dawn of redeeming grace,
Jesus, Lord, at Thy birth,
Jesus, Lord, at Thy birth.

Away in a Manger

Away in a manger, no crib for a bed,
The little Lord Jesus laid down His sweet
head.
The stars in the heavens looked down where
He lay,
The little Lord Jesus, asleep on the hay.

The cattle are lowing, the Baby awakes,
But little Lord Jesus, no crying He makes.
I love Thee, Lord Jesus, look down from the
sky,
And stay by my cradle till morning is nigh.



Good King Wenceslas

Good King Wenceslas look'd out,
On the feast of Stephen,
When the snow lay round about,
Deep and crisp and even;
Brightly shone the moon that night,
Though the frost was cruel,
When a poor man came in sight,
Gath'ring winter fuel.

"Hither, page, and stand by me,
If thou know'st it, telling.
Yonder peasant, who is he?
Where and what his dwelling?"
"Sire, he lives a good league hence,
Underneath the mountain;
Right against the forest fence,
By Saint Agnes' fountain."

"Bring me flesh, and bring me wine,
Bring me pine logs hither;
Thou and I will see him dine,
When we bear them thither."
Page and monarch forth they went,
Forth they went together:
Through the rude winds' wild lament,
And the bitter weather.

"Sire, the night is darker now,
And the wind blows stronger;
Fails my heart, I know not how,
I can go no longer."
"Mark my footsteps, my good page,
Tread thou in them boldly;
Thou shalt find the winter's rage
Freeze thy blood less coldly."

In his master's steps he trod,
When the snow lay dented;
Heat was in the very sod
Which the saint had printed.
Therefore, Christian men, be sure,
Wealth or rank possessing,
Ye who now will bless the poor,
Shall yourselves find blessing.



The First Nowell

The first Nowell the angel did say
Was to certain poor shepherds in fields as
they lay;
In fields where they lay keeping their sheep,
On a cold winter's night that was so deep.
Nowell, Nowell, Nowell, Nowell,
Born is the King of Israel.

They looked up and saw a star,
Shining in the East, beyond them far,
And to the earth it gave great light,
And so it continued both day and night.
Nowell, Nowell, Nowell, Nowell,
Born is the King of Israel.

O Come, All Ye Faithful

O come, all ye faithful,
Joyful and triumphant,
O come — ye,
O come — ye to Bethlehem;
Come and behold — Him,
Born the King of angels;
O come, let us adore Him,
O come, let us adore Him,
O come, let us adore Him,
Christ, the Lord.

Sing, choirs of angels,
Sing in exultation;
Sing, all ye citizens of heav'n above:
"Glory to God,
All glory in the highest."
O come, let us adore Him,
O come, let us adore Him,
O come, let us adore Him,
Christ, the Lord.

Yea, Lord we greet Thee,
Born this happy morning;
Jesus, to Thee be all glory giv'n;
Word of the Father,
Now in flesh appearing:
O come, let us adore Him,
O come, let us adore Him,
O come, let us adore Him,
Christ, the Lord.



Joy to the World!

Joy to the world! the Lord is come;
Let earth receive her King;
Let ev'ry heart prepare Him room,
And heav'n and nature sing,
And heav'n and nature sing,
And heav'n and heav'n and nature sing.

He rules the world with truth and grace,
And makes the nations prove
The glories of His righteousness,
And wonders of His love,
And wonders of His love,
And wonders, wonders of His love.



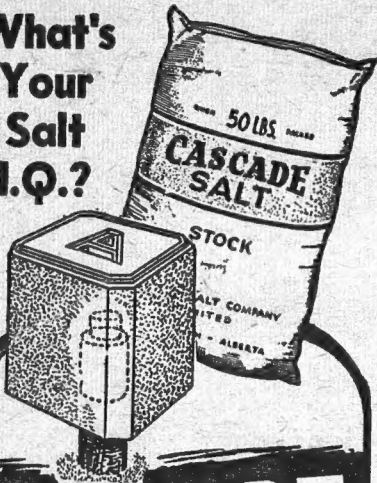
O Little Town of Bethlehem

O little town of Bethlehem,
How still we see thee lie.
Above thy deep and dreamless sleep
The silent stars go by,
Yet in thy dark streets shineth
The everlasting Light;
The hopes and fears of all the years
Are met in thee tonight.

For Christ is born of Mary;
And gathered all above,
While mortals sleep, the angels keep
Their watch of wondering love.
O morning stars, together
Proclaim the holy birth!
And praises sing to God the King,
And peace to men on earth.

O holy Child of Bethlehem,
Descend to us, we pray;
Cast out our sin and enter in,
Be born in us today.
We hear the Christmas angels
The great glad tidings tell;
O come to us, abide with us,
Our Lord Emmanuel!

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Farm and Ranch Review

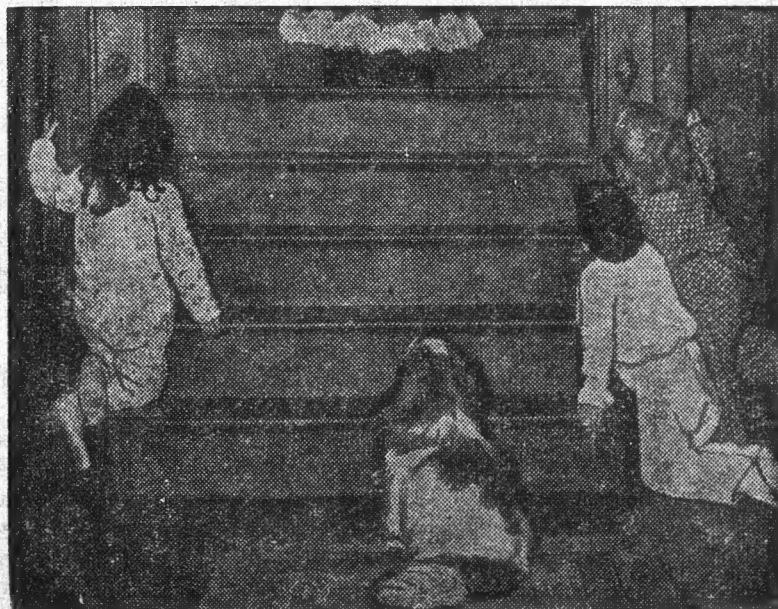
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Farm and Ranch Review Editorials

To Store Up the Spirit of Christmas And Release it Throughout the Year

What is there to be said about Christmas that hasn't been said a thousand times before? What Christmas theme is there that has not been worn threadbare by editors and preachers through endless repetition?

It would be easy, too easy, to dilate on the gulf that separates Christ from Christianity. It would be easy, too easy, to enter a protest against the debasement of the word "Christianity" by the common practice of coupling it with civilization, culture and even democracy. It would be easy, too easy, to abhor the bitter squabbling over textual meanings which create hatreds in the name of Christ who preached only of Love. It would be easy enough to fill this page on any of these themes.

Yet—on pain of being trite and commonplace, we prefer to say something else. It is this: The great, the enduring fact in the life of Jesus was that He had a moral code, an ethical system, a philosophy—call it what you will—and He lived up to it.

He preached what He practiced in His everyday life. In the perspective of history, in the relation to His times, what He preached was more revolutionary than anything heard today. Evil was the consort when brute force was king. He preached the good life as its own reward, pacifism, the ordinary virtues of kindness, tolerance, patience, humility and the other ingredients of what we call human decency.

But before the practice and the preaching there was the working out of a moral code. And it is right here, perhaps that the world of today is at such complete variance with Jesus and His teachings. It is only at Christmas time that we get back to the real basis of the moral code of Jesus. Arthur Schopenhauer once defined the basis of morality as loving kindness. It's a good definition.

That's Christmas, the bubbling up and overflowing of loving kindness! At that time we follow most of Christ's precepts. We love our neighbors, we are generous, tolerant, kindly, patient, slow to anger, brotherly, helpful and charitable. We come to know how much more blessed it is to give than to receive. Some of us even make an attempt at the most difficult of all Christ's teachings—loving our enemies. And in the fullness of our hearts we cannot help but tell each other—

"What a world this would be if we could only capture some of the spirit of Christmas in a bottle and release it throughout the year!"

Then most of us sigh and fall back into a common mould where Christian ethics have little place. Why? Perhaps it is because civilization has dropped one subject from its curriculum. Our schools and churches and homes can teach us everything—except how to live with ourselves. We have everything a civilization can provide, except an individual, workable, everyday moral code. We are like people who have learned everything there is to know about arithmetic—except addition. We fumble, we grope, we wander and sometimes our answers are right and sometimes they are wrong.

So we sometimes lie, and steal, and are unjust, cruel, spiteful. Afterwards we may feel uncomfortable, our conscience may twinge but we only vaguely know why; because the moral code we live by is vague and elastic.

But if a rigid moral code is hard to live by, it is much easier, and can be done more successfully if we have one that is clearly defined. That, we suggest in all humility, is one of the greatest truths to be gleaned from the life of Jesus.

if they exchange the product of their labor and capital for it.

That's pretty simple. It's elemental. So is the fact that the means by which those commodities were produced were largely destroyed by the war. Not only were physical plants destroyed, but the carefully husbanded capital assets were sold off. Britain once earned several billions a year on her investments abroad. Those earnings bought food. But those assets were sold for American dollars which were used to buy ships that were sunk and shells that were fired and planes that were lost.

So the people of Europe, our customers, are faced with the dual problem of rebuilding their shattered cities and factories and producing enough extra wealth to buy the food they need from us. It is an impossible task. And that is the explanation why we may be headed for trouble in maintaining our sales of grain.

What must be realized is that the world economy of today has no resemblance to anything any of us have ever known before. Shouting slogans and smear words, invoking economic laws which had a partial validity for half a decade a 100 years ago, these contribute nothing to the solution to our problem.

In a very real sense, the war is not over. The people of Britain and Western Europe are still our allies; and they remain our most valuable potential customers outside the U.S.A. Canada's national interest demands that measures be devised to keep our food flowing to our allies and customers until such times as they can stand on their own feet.

That means that the Canadian nation must accept the responsibility for the cost of the operation. If the nation, as a whole, refuses to accept this responsibility, then the full, and completely disastrous burden will fall on the producers of Western Canada.

The danger, to the West, in the "need" propaganda is that we will once again be lulled into the dream that there is an unlimited demand at high prices for all the food we can produce. There is a demand, but the great task that faces our government and our people is to make it effective.



Premier Stuart Garson Steps Out and Up

THE departure of Premier Stuart Garson of Manitoba for Ottawa is, in one very real sense, a distinct loss to the people of the prairies. There have been few abler men in public life in Canada in this generation. A man of character and conscience, he became to be recognized everywhere as the man who spoke with the authentic voice of Western Canada.

Stuart Garson was our champion, and we don't like to see him go, even if his going is a great gain for Canada. Indeed, the fact that Mr. Garson has accepted the call to Ottawa is a significant commentary on his sense of public duty. He is leaving the familiar for the strange. He is leaving the things upon which he set a high

(Continued on page 6)

Confusion On The Food Front Because Need Doesn't Spell Demand

A GOOD deal of confusion has been created lately by contradictory statements about food. On one hand we have heard warnings from the top food experts that world population is outstripping world capacity to produce. Millions of people live in constant fear of famine. To raise their diets even to a subsistence level would require more food than this whole continent is capable of producing.

Then to seemingly contradict all this, Mr. J. H. Wesson of the Saskatchewan Wheat Pool has expressed concern over our ability to dispose of next year's crop. The United States this year will give away \$1,000,000,000 worth of food under the European Recovery program. Without this outlet, and if supply and demand operated without restriction, the bumper U.S. crop would have precipitated a disastrous agricultural depression.

The trouble here is that the experts are talking about two different things. The nutritionists are concerned with human need. The farmer group leaders are concerned with effective demand. There was perhaps once a time when there was some relation between the two. There is almost none today. The needs of Europe and

Asia are fantastic in size. But they are the needs of the beggar in front of the shop window and as incapable of being filled.

So the question of need is largely academic, particularly as far as Asia is concerned. One illustration is enough to nail down that fact. For generations the British were appalled by the health standards of India. They tried to do something about them. Some progress was made and the death rate from plagues and epidemics was reduced. The age span was gradually extended. But as population rose it tended to run out of food and famines came closer and closer together. It was literally true that children who were saved from death in infancy from disease were carried off by famines their continued existence had helped to create.

Grain is not only a food. It is wealth created by the labor and capital of those who produce it. It is a trading commodity, wealth that can be realized only if it is exchanged for other commodities, for other wealth. The people who need our food, and want our food, can only get it

Farm and Ranch Review Editorials

(Editorials Continued)

value for a career that may well be fraught with considerable frustration. From a viewpoint of pure self interest, he will be giving up a great deal for he could, in a very short time, make a much better income in private practice than he will earn as a member of the Canadian cabinet.

Everyone who know him, even slightly, in Manitoba will vouch for this fact: His sense of public duty was incredibly high. He would go anywhere, at the behest of even the smallest group, to discuss public questions. In a very real sense, he did not regard politics as a job but as an opportunity to serve his community. People who fail to understand that about Stuart Garson will fail to understand him at all.

But having said all this, it is only right to say, too, that there will be satisfaction for all the people of the prairies in knowing that he goes to fill one of the three top portfolios in the Government. He will give the West another needed and powerful voice in the formulation of policy.

What may not be widely known among our readers is that he is a sounder student of economics than many of the professional economists who advise the Government. He has a firm grasp of economic theory, the text-book stuff. But his realistic political sense has taught him that a good deal of book-learned theory doesn't have much practical application in a country like ours. Certainly his knowledge of finance and interest in fiscal policy will be of great value to the Liberal party, particularly in Western Canada.



Why Pump Life Into a Dead Horse

THE coalition Government in Manitoba served its purpose and must eventually pass from the picture. So we don't quite see the point in the effort being made to preserve it after the departure of Mr. Garson.

It was formed in 1942 to do two things. To unite all the people of Manitoba in an effort to achieve the adoption of the Rowell-Sirois report, and to aid in the successful prosecution of the war. Both objectives have been met. Its excuse for continued existence seems to have evaporated.

Whether or not the Coalition was a success or a failure, we leave to history. When the C.C.F. pulled out of the union, and the Socialist tide was flowing, it may be that the coalition prevented the C.C.F. from coming to power in Manitoba.

On the other side of the picture, the union of the Liberals and Conservatives in provincial politics played into the hands of the C.C.F. federally. It gave the Socialists a chance to assert that there was no difference between the two parties, that the C.C.F. was the only vehicle for the protest voters. At the same time, the very existence of the Coalition cast a pall over the Liberal organization.

In the old days, a young man with a hankering to get into politics could try either the Liberal or the Conservative party. Under the Coalition, the door was slammed shut in his face by both parties. He could wait for the sitting member of

the Legislature to die, or he could forget about politics. It is small wonder then that the young Liberals of Manitoba are the most vocal in their demands for a dissolution of the partnership.

Under the Conservative Party leadership of Mr. Bracken, the Manitoba Conservatives had some justification for staying in the Coalition. Today their party is led by Mr. Drew, who stands resolutely against everything they stood for in forming the Coalition to implement the Rowell-Sirois report.

There is of course the excuse, a very lame one, that dissolution of the Coalition would lead to the election of a C.C.F. Government. We doubt if even those who voice such an opinion have any strong convictions. The C.C.F. in Manitoba today is drifting leaderless, without much hope of gaining anything but a few urban seats. In any event there are worse things than losing elections. One of them is to abandon principle.



The Eclipse Of Newspaper Editors

ASIDE altogether from being made to look foolish, the American newspapers, magazines, radio experts and poll takers were taught a lesson by the re-election of President Truman. It was this — the whole publishing world, which includes radio, has lost touch with the people. It doesn't matter so much that the press was wrong. It was the way in which it was wrong that raises questions that go right home to the fundamentals of the freedom of the press.

In the last few decades the press, including the magazines, have been undergoing forced draft evolution. The day when an editor counted for something, in his community and in his country has passed. The dominant voice in the press today is the publisher, the man who counts the coins, owns the press and the property. And even the individual press tycoon has been diminishing in importance as chain newspapers and magazines increased.

Chain newspapers are operated like service stations, chain bakeries and chain cigar stores and with the same general objectives. Some of them follow a formula perfected by William Randolph Hearst. That might be described as blatantly biased. The editorials are written by the owner while the editors' function is only to see that they get into print. Or chains operate like the Scripps-Howard papers. They make a fetish of impartiality and fill their editorial pages with columns giving opposite points of view. Again, the individual editor counts for nothing.

In the Hearst chain, editors must be pliable enough to make whatever turns the whims of an aged autocrat demand. They must be prepared to see their papers advocating the most outlandish lunacies. The giants who once occupied editorial offices have been succeeded by "yes-men" and the transformation has affected the whole profession.

Young men with off-centre ideas are no longer welcome. To advance in the jour-

nalism of today a young man must fashion his convictions after his publisher's pet prejudices. That, of course, is not universally true. It is not true in Canada as far as the best papers are concerned. But the best Canadian papers are locally owned and are conceded by all to make an honest attempt to provide their subscribers with the best service possible.

The way for a young man to get ahead in the chain publications is to write things his publisher likes to read. Pliable young men of that stripe do not make objective reporters, or men who will wear out their shoes chasing facts. They tend to use the telephone, to "pick each other's brains," one of the commonest phrases of the trade.

So the American experts made quick campaign trips, and wrote the most profound nonsense. And when they were proved to be completely wrong, they were stunned and called the election an upset. How could it have been otherwise, when most of the so-called experts got their information from each other.

It is of some credit to the American press to note that the best reporters, men like James Reston of the New York Times and Russell Wiggins of the Washington Post were quick to accept the blame for their part in the performance. Both are men of integrity and ability.

The mistake newspaper and magazine readers make is in placing too great stock in opinions expressed by their favorite organs. The name of a paper, attached to an opinion, even if the paper does own a big building, does not make the opinion any better. It is, in fact, simply the opinion of the person who was hired to write opinions as men as hired to lay bricks. Newspapers and magazines are the sum total of the people who work for them, they are not super-beings in their own right.

When the editors of newspapers circulate only among people who think the same as they do, who take in each others intellectual laundry, their opinions are, in fact, quite worthless. Some of the most publicized editors, hence, often know less about the subject they pontifically discuss than do most of their readers. That was obvious in the American election. Unfortunately, with the growth of chain publishing, this is the type of editor most desired by chain publishers, far more desired and in demand than the free-thinking, independent mind.



Don't Forget Your Christmas Seals

ORDINARILY, we are most reluctant to use our editorial page to boost the efforts of the various charitable appeals that are made to our readers. But we have no hesitation at all when it comes to Christmas Seals.

We like to see these seals on the letters we get, and we like to put them on the letters we send. They add just the right touch of good cheer to the mail. They are always so attractive in their own right that we would buy them even if no charity was involved. And when we realize that the proceeds from the sale of these cheery little stickers goes to help finance anti-tuberculosis work all over our country, they become double attractive.

Foreign Affairs Commentary

Truman's Victory Was Big Gain For Canada

By BEN MALKIN

THE general satisfaction expressed in Canada over the Democratic victory in the United States has not been ill-founded. Under a Truman administration, it is reasonable to suppose, the Americans will continue to permit the flow of Canadian goods, particularly agricultural products, into their country. The European Aid Program will be maintained and extended, and President Truman's record indicates that while he will not surrender to Russian pressure, neither will he abandon hope for reaching a peaceful settlement with the Soviets.

The trade position is important. Even under the Geneva agreements, a country may exclude agricultural imports if it itself is facing a surplus and if it is compelled to maintain a government price-support program as a result. Yet the United States, under President Truman, has not invoked this escape clause with respect to Canadian foods.

Potatoes are a case in point. Under the Geneva pact, 1,000,000 bushels of table potatoes and 2,500,000 bushels of seed potatoes were to enter the United States this year at a duty of 37½ cents a hundredweight. Thereafter, the duty would be 75 cents. While lower-duty potatoes were being shipped from Canada to Boston and New York, Maine was suffering a potato glut. At the same time, the government price support level on potatoes in Maine was higher than the price of Canadian potatoes, including duty, laid down in American cities.

As a result, heavy pressure was brought on Washington to keep Canadian potatoes out. The U.S. government could have done this, yet it didn't, and to a certain extent will be subsidizing Canadian potatoes as well as its own, for by permitting imports, it raises the supply of surplus American potatoes, and at the same time reduces the surplus of Canadian potatoes with which our own government will have to deal.

This is but one example of how the Truman administration treats Canadian trade.

Since we are losing much of the British market for our bacon, beef, cheese and eggs because of the shortage of dollars in the United Kingdom, the American market will in the next three or four years be more important than ever. The beneficial consequences of the American election in so far as Canada is concerned cannot, therefore, be overemphasized.

Berlin and Palestine

During the past few weeks, the United Nations General Assembly in Paris debated settlement of the Berlin

dispute and the Palestine war. In the Berlin quarrel, the issue is the blockade and the introduction of Soviet zone currency to cover the whole of Berlin. The question is, which shall come first, the lifting of the blockade, or the introduction of the Soviet currency? One suggestion has been that both be done simultaneously, but the western powers have insisted that the blockade be lifted first. Another suggestion, advanced mainly by Canada, is that the blockade be lifted in stages, with highway traffic to be permitted first, while details on the currency question are straightened out.

In Palestine, again upon Canada's initiative, Arabs and Israeli have been ordered to conclude an armistice, with a view to opening direct negotiations for a peace settlement. The Israeli provisional government has always contended that this was the best way to end the Palestine war, and in fact rumors that they were in direct contact with several Arab states, exploring the possibility of a settlement, have been current for some time.

The Stake in China

Meanwhile, the civil war in China has taken a turn that may change the whole course of history. Even if the Communists are in the long run unsuccessful in winning the whole of China, they can, by consolidating their strength in Manchuria, dominate the whole of northeast Asia. They already hold military sway over this rich territory of 30,000,000 people, with substantial resources in coal, iron, and oil. Manchuria industries, during the war, were vital to Japanese armament. Now in the hands of the Communists, the use to which this area that borders on Soviet Siberia is put may completely change the balance of power in the world.

Few informed people in the western world sympathize with the weak and corrupt government of China's president, Chiang Kai-shek, with the exploitation of peasants and coolies that has alienated most of the population from him, or with the greed and selfishness of China's rich men that has sabotaged every effort of the western world to restore and stabilize the country's economy. If it were certain that the Communists, who appear to have widespread support among the people, were to concentrate on domestic problems, it is doubtful whether very many people would object to their victory. But if they should add their strength to Stalin's efforts to expand Russian territory and influence, the western world becomes directly concerned with the problem of stopping them.



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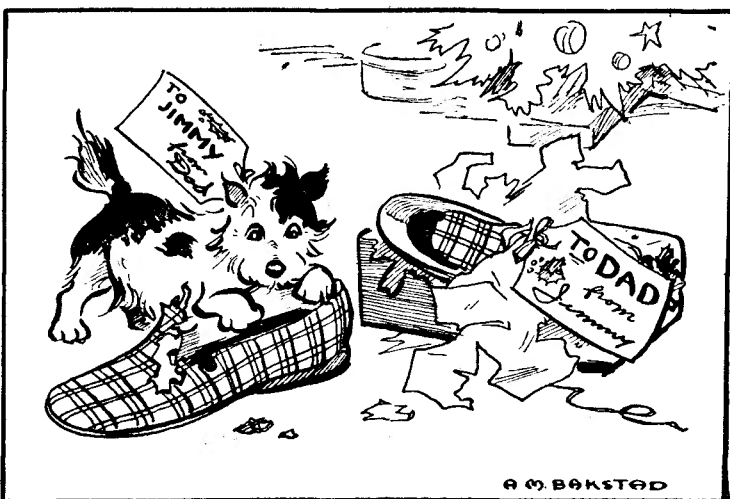
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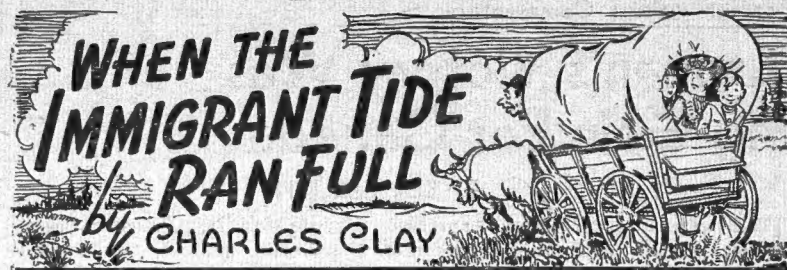
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BESIDES insects, the immigrants had to contend with prairie animals. Gophers not only destroyed entirely the patches of grain the settlers had worked so hard to put in, they also got into the sod houses and messed them up. They left their trademark in the sack of flour — but the homesteader would sift it and use it anyway.

Prairie animals were frequently the source of comedy among the immigrants. Two charming English girls, who had recently come to live with their uncle just outside of Regina, were invited to have tea with the Saskatchewan Lieutenant-Governor and his wife. Donning their best party clothes, the young women proceeded to drive into town. They saw a stray kitten along the prairie trail, caught it, gave it refuge in a shawl and took it along.

When they got to Government House, they were surprised at the bad odor of the place, and put it down to lack of drains. As the excited young ladies entered the Tea Room, where was gathered Regina's social elite, the elite left hurriedly. The kitten jumped out of the shawl and hid under the piano.

Later that afternoon the Governor's stable hand was seen carrying a heap of the very latest English styles in feminine finery on a pitchfork to the prairie — for burial! It was the first, and last, skunk those English immigrants ever made friends with. History does not relate whether or not they were ever invited to tea again.

landed in great confusion at the bottom.

Then, after unscrambling the mess, and starting up the equally steep hill on the other side of the creek, the new colonists tied the wheels to prevent the carts from slipping back. The oxen struggled hard to draw the loads up the slope with wheels locked, and the puzzled immigrants sweated and swore as they pushed.

A few of these "green" colonists made amusing blunders. One cut up a bag of turnips and sowed the pieces. One bought a bag of bran and a bag of shorts and planted them.

Another bought a cow. He gave her three pails of water and couldn't understand why he got so little milk. He insisted on returning the cow to the dealer.

The early immigrants faced man-made hazards. Perhaps the most annoying of these were the horse-thieves.

One summer morning a settler, who had some fine work-horses and a small pony, missed a large mare and a pony. The settler scoured the surrounding country but could not find them, so decided they had not strayed but were stolen.

He remembered that, two weeks before, a cowboy riding a mule had stopped and admired the heavy horses. On this clue, the settler started to look for some tracks — a mule, a pony, and a heavy horse. He finally found what he was looking for. Driving a buckboard, with his rifle under the seat, the settler started in pursuit.

After travelling about 90 miles, the settler reached the top of a small knoll one day at noon — and saw below in the hollow the thief sound asleep with the stolen property tethered to his foot!

Covering the cowboy with his rifle, the settler called to him to bring the horses and tie them to the buckboard. The settler then ordered the cowboy to stand on one side and secured the revolver which was on the ground where the cowboy had been sleeping. With horses and guns, the settler started back home.

The cowboy's mule, however, as soon as he saw his companions going away, started to follow. This left the thief on the prairie, helpless, far from food and shelter. So the settler stopped and waited until the mule was caught.

The cowboy then shouted: "By God, you are a gentleman!" and each started on his way.

During part of the prairie pioneering period, liquor was scarce. The amount of spirits allowed under a special permit system was limited to two gallons every three of four months. This led to extensive smuggling from the neighboring United States.

The contraband — sometimes "fortified" with tobacco leaf, bluestone, sulphate of copper, red pepper — was known as Mountain Dew, Coffin Varnish, Bug Juice, White Mule, White Lightning, Forty Rod, Tanglefoot, and other more descriptive but less mentionable titles. It was shipped to the prairies in the most ingenious disguises — in baled hay, in the centre of casks of sugar, in the centre of kegs of butter or pickles, in cans of



In our immigration activities today, we take care to see that the prospective citizen is amply trained to make a success in his new home. Such care was not particularly noticeable in the early days. In their haste to reach the Promised Land, many "green" settlers arrived on the prairies.

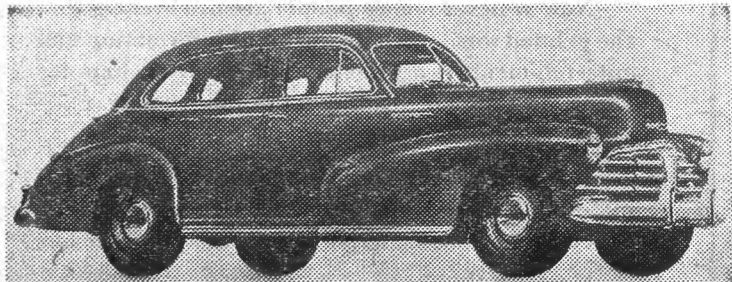
One such group were the famous Barr colonists, straight from London, who made homes near Lloydminster. Their inexperience led to many comic—even tragic—situations, and it was not until many years afterwards that the immigrants, finally successful farmers, could laugh at their blunders.

A Barr colonist, at the end of his first day's trip, began to unhitch his horses. He wondered how he'd ever get the harness all back on the horses in the morning, since he'd never harnessed horses before. He was not to be defeated. He took some raw lime and painted lines on the horses' hides to show where the harness went.

A group of Barr colonists with oxen came to the top of a steep hill at a creek. The hill looked formidable, and a great argument sprang up about the best way to get down it. Finally, it was agreed that, to prevent the carts from going down too quickly, the oxen should be hobbled. The carts promptly overran the oxen and all

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fruit, in imitation Bibles, in coffins, in crates of eggs.

One day a keg labelled "vinegar" arrived at the railway platform of a prairie town. A suspicious Mountie immediately proceeded to guard it by sitting on it. He planned to wait for the owners to claim it.

The two owners were just a jump ahead of the Mountie. One joined the Mountie, and, ignoring the keg, told funny yarns which kept the Mountie, shaking with laughter. As he talked and joked, the thirsty conspirator kept stamping up and down the wooden platform.

Meanwhile, his confederate was prone under the platform, with a brace and bit and large crock. Protected by the noise of the laughter and stamping, he bored through platform and keg, drained the whiskey — every drop — and got away.

The next morning the two pioneers, their thirst properly assuaged, visited the station and thought it very funny to find the Mountie still on guard.

Sometimes practical jokes backfired.

A preacher, noted for his dull sermons, was due to hold a service in a small community. Two young men, knowing the preacher read from his book of sermons, glued the last and first pages of two sermons together, hoping to confuse the cleric.

The jokesters — and the congregation — met speedy justice. The absent-minded minister read right through both sermons, although they were about completely different subjects.

Two young Englishmen came to live on a homestead. They were very green and tender, and the settlers plied them with fantastic stories of Indians and wild beasts.

On a moonlit night two settlers hid themselves in the bush near the newcomers' shack and imitated the howling of wolves. This brought no response from the English lads, so one of the settlers got down on his hands and knees and gamboled across an open space, uttering cries that would have scared an ordinary wolf to death.

All at once the door of the shack was thrown open and one of the Englishmen most expeditiously hit the settler in the legs with a charge of buckshot.

Prairie Indians were sometimes a source of amusement to the pioneers, sometimes a source of anxiety. Shortly after it was opened in 1885, the telegraph office at Wood Mountain received a pair of telephones for experimental purposes. One was installed at Wood Mountain, the other at Moose Jaw, about 75 miles away. These were the first telephones reaching the prairies. The instruments worked very clearly.

On one occasion the telegraph agent at Moose Jaw got a Sioux Indian into his office, while the agent at Wood

Mountain got another Sioux into his. The Wood Mountain agent instructed his Indians how to proceed.

A look of vast amazement spread over the Redman's countenance as he recognized the voice of his relative who he knew had gone to Moose Jaw. The Wood Mountain Indian then spoke in turn into the phone, and, receiving a reply, dropped the receiver and turned to the agent. He said excitedly:

"If it costs a pony, I'm going to have one of these things; it speaks Indian as well as I do."

Sometimes the Indians were surly. One day a group of renegade Sioux came to their Indian agent and demanded guns, flour, ammunition. In those days Indian magic — and in fact any kind of man-made magic — went a long way. The agent decided it was time to practice some, and he told his wife what to do.

She was to step into the circle of Indians and address them. When the agent's wife was ready, the interpreter said: "Look at the white squaw and listen to her words."

All eyes were turned on her. She opened her mouth to speak, and, lo, her teeth fell out!

Amazement, wonder, fright took possession of those surly Indians, and the agent and his wife saw the biggest Indian stampede in all their lives! False teeth had saved a bad situation.

In the loneliness of the early prairie pioneering days it was easy to lose track of time. On a certain peaceful Sabbath morning a settler was surprised to hear much gidupping and whoaing coming from his neighbor's homestead.

The latter was ploughing away — a spectacle to men and angels — and making more noise than usual.

Now that erring plowman was noted for his puritanical views. He was called "Holy Jack."

An appreciative grin spread over the first settler's face. He carefully dressed himself in his Sunday best, and sedately walked over to the Sabbath-breaking plowman. Stopping him, the settler began a solemn lecture on lack of respect for the Lord's Day.

Holy Jack almost fainted. He nearly skinned the oxen in his hurry to get the harness off.

He said, dolefully: "Thanks, dear neighbor. I thought it was Saturday. I should have known that the devil had a hand in the matter, for the plow never ran so smoothly."

Today, as we once more open our immigration gates wider than they have been at any time since 1920, we do well to remember that among the Canadians welcoming today's immigrants are the descendants of hundreds of thousands of earlier immigrants.

A short while ago I flew from Saskatoon, at about the top of the plains area, to Regina, near the bottom of the plains. It was a glittering moonlit night, and the prairie countryside lay spread out below like a patchwork quilt.

Impressive farm buildings were easy to see. The lamps in farm houses shone against the windows. Along highways gleamed the headlights of night-traveling automobiles. And dotting the great area was the glow of the street-lamps of the many towns and villages.

As my airplane slid smoothly through the night sky the trials and tribulations of the prairie pioneers — among whom had been my parents — seemed to belong to another world. They did: they belonged to the prairie of half a century ago. And I realized quite clearly that, for the improvements made, those early immigrants themselves are largely to be thanked.

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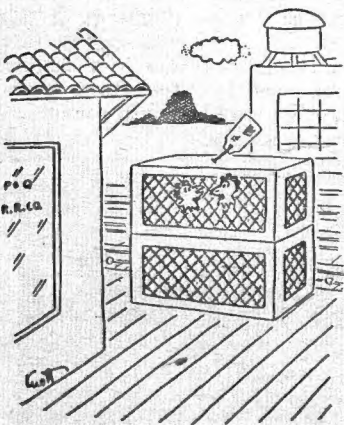
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An Eden, to a Desert, to an Eden; That's the Story of the Melita Project

WIND-BLOWN, eroded and cropless, two sections of land in what was once Manitoba's dust bowl, have been brought back to fertility and profitable production. That's the story of the Dominion Reclamation station at Melita, which has just issued a progress report that will be required reading for soil-conscious Western farmers.

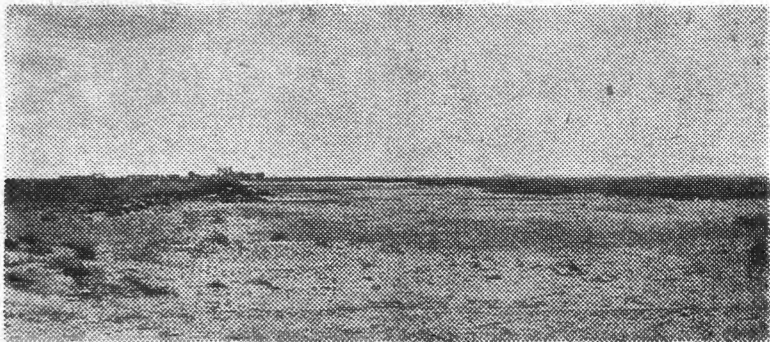
More than a million acres were abandoned in Manitoba during the desperate drouth of the 1930's. The Melita district was one of the hardest hit. When the Dominion Government established its P.F.R.A. reclamation stations in 1935, one was placed on two of the worst sections of land at Melita.

In the southwest section of the Province where this Station is situat-

half miles north of the town of Melita were leased in 1935 for the establishment of a Reclamation Station. On this land practically no crops had been produced since 1928. Extensive soil erosion had taken place on each of the eight quarter sections. Some of the eroded strips extended the full length of the quarter section. From these the surface soil had been completely removed. In other areas there were extensive banks of drift sand. Areas less severely eroded were infested with couch grass, Russian thistle, ragweed, wild millet and other weeds. The two sections of land selected for the station were typical of the severely eroded areas of southwest Manitoba.

The levelling of sand banks and the destruction of weeds in preparing the

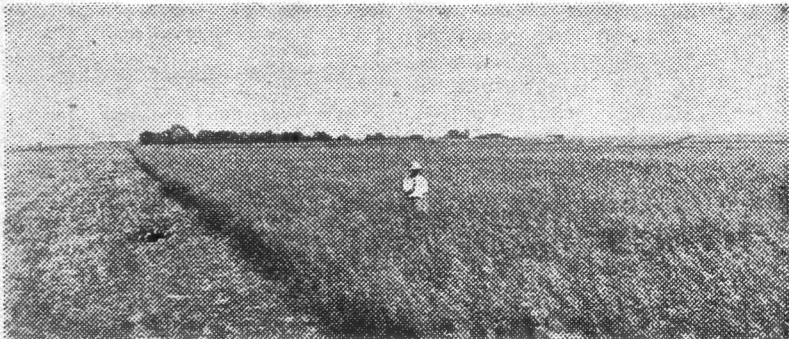
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ed, the long-term (fifty-five year) average annual precipitation is 17.63 inches. The soil in the area is classed as Souris Light Sandy Loam and the sub-soil is sandy clay. The water table is approximately ten feet below the surface. The top soil when dry and unprotected erodes readily with winds of moderate velocity.

During the six years of drought (1929 - 1934) the average annual precipitation was 14.58 inches or 3.05 inches less than the long term average. The dry weather was accompanied by grasshopper invasions. The combined effect of drought, grasshoppers, and extensive soil erosion by wind, caused crop failures in a wide area and low

To This — — — — —



unprofitable yields throughout the southwest section of the province. By 1935, farms totalling a million acres in Manitoba had been abandoned. Much of this abandoned land was in the light soil areas. Where soil drifting was a major cause of abandonment, the sand banks that had accumulated through wind erosion provided a further menace to neighboring farms.

Two sections of land four and a

land for crop production was the first problem faced. Such work had to be accomplished without exposing the soil to further danger of drifting. Bare unprotected soil had to be avoided and the plough was used only on very small areas. Surface tillage was used almost exclusively and the reclamation work was undertaken in strips rather than in fields. A trash cover of uprooted weeds or stubble was maintained on the surface. Where a cover of this kind could not be provided, straw, manure or other such material was spread on the surface. Winter rye was extensively used as a first crop to provide a soil cover.

The second phase of the work cen-

Shelterbelts Are Not Complete Without Evergreens



Feed lot on the farm of Mr. Tom Galloway, Lloyds' Hill, Alberta, substantially sheltered by spruce planted in 1914. Trees are now well over 30 feet high and provide ideal protection for stock the year round.

By JOHN WALKER

Superintendent, Forestry Station,
Indian Head

IN an area like the Prairie Provinces where most broadleaf trees are without leaves for over seven months of the year, the value of evergreen trees for landscape effect and protection is much greater than in areas where broadleaf trees hold their foliage longer. The protective influence of evergreen trees in the open plains area during winter months must be experienced to be fully appreciated.

Fortunately, more and more tree planters have come to realize that evergreen trees may be expected to survive and develop under most conditions where broadleaf trees can be grown. In every farm shelter-belt, therefore, a substantial planting of evergreens should be considered a "must".

For best results they should not be planted indiscriminately, but for a specific purpose and according to a definite plan.

Thorough soil preparation is perhaps more essential for evergreens than for broadleaf trees. They should be planted in rows by themselves, and these rows separated from the broadleaf rows. When planted adjacent to established broadleaf trees up to 30 feet high, a space from 20 to 30 feet wide should be kept in a cultivated

on the Station are in strips of approximately ten rods in width. The effect of shelter belts in the control of erosion has also been observed and measured.

The progress report published in 1948 provides a summary of the results of the experimental work undertaken on the Reclamation Station. During the years that have elapsed since the reclamation projects began, practically all of the land leased in 1935 had been brought into satisfactory production. The projects have benefited during these years by generally favorable weather conditions. A series of dry years must be experienced before the cultural practices evolved can be fully appraised.

History is almost certain to be repeated and years of reduced precipitation will probably follow the past decade of relatively favorable crop conditions in Western Canada. Much experience and experimental evidence have been accumulated to assist in bridging the periods of drought and in avoiding a recurrence of the widespread disaster of the thirties. It will be necessary, of course, to use the guides provided by experience and the results of experimental work in the cropping of land subject to wind erosion.

A copy of the report of the Dominion Reclamation Station may be obtained by writing to the Experimental Farm, Brandon, Manitoba.

condition between the broadleaf and evergreen rows. This distance may be reduced to 15 or 20 feet if the extending branches of the broadleaf trees can be pruned or "walled up" each year.

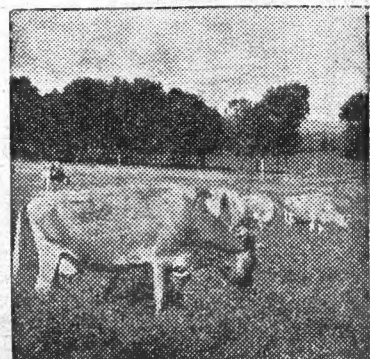
By this practice the broadleaf branches would not interfere with the development of the evergreen trees, and a neat, dense, hedge-like barrier will be obtained. What may seem like unnecessary space set aside for the evergreens at the outset will be little enough after they begin to make a substantial amount of annual growth.

Kinds of evergreen trees to plant will be governed by individual taste and liking. More rapid growth may be expected from Scots pine than from spruces. But, for providing the most effective and continuous shelter, spruces surpass the pine. This is partly because lower and older branches of pines eventually lose their needles and die. Needles of spruces are longer-lived.

When planting evergreens, therefore, to complete a shelter design, one or more rows may be added. These may contain mixed evergreen species, but a more satisfactory plan is to plant each kind in a separate row. The following design is suggested for a three-row planting of evergreens within the protection of broadleaf trees: Scots pine in the row nearest the broadleaf trees; white spruce in the second row; Colorado spruce in the third row (nearest the garden, house, etc.).

If early shelter is the main thought behind the planting of evergreens the trees should be spaced from four to six feet apart in the rows. If planted for decorative effect the distance between trees may be doubled. Distances between evergreen rows may be eight or more feet.

Where spacing in the rows is close (four to six feet) it is wise to leave ample room for branches to extend outwards without restriction. Strips between evergreen tree rows should be kept cultivated. Plantings of this type at the Forest Nursery Station, Indian Head, Sask., are in a healthy, vigorous condition after thirty years, and provide excellent year-round protection.



Western Canada Reclamation Will Spur Irrigation Prospects

By C. FRANK STEELE

ONE of the important agencies giving support to reclamation in Western Canada is actually little known and yet it is making progress steadily. This is the Western Canada Reclamation Association organized at a meeting in Lethbridge in July, 1947.

The Lethbridge organizational conference, which attracted delegates from British Columbia, Alberta, Saskatchewan and Manitoba, followed previous meetings when the idea of an association to foster irrigation and water storage was informally discussed. One of these meetings was held in Regina some months before the Lethbridge conference. A meeting was also convened in Medicine Hat, which is vitally interested in the work of such a body because of the proposed Bow River Development, an extension of the present Canada Land project at Vauxhall. Medicine Hat stands to gain greatly by irrigation with upwards of 100,000 acres of irrigable lands in close proximity to the city.

At the Lethbridge meeting an organization was effected including the election of officers and the adoption of a constitution. Delegates at the conference were impressed with the possibilities of irrigation in seeing the productive projects clustered around Lethbridge—the city has over 300,000 acres of irrigated lands tributary to it—and the St. Mary and East Pot Hole Coulee dams being built by the senior governments. These are part of the P.F.R.A. program, to store water for another 350,000 acres of irrigable farm lands.

The delegates from the western "dust bowl" saw sugar factories, canneries, alfalfa mills, market gardens, livestock feedlots, etc., inclusive of the varied activities tied in with irrigation. Here was a stabilized agriculture brought about by the application of water to the land. "More Green Acres" was the slogan of the parley and along with irrigation was visioned the development of hydro power leading to rural electrification on the prairies.

The imagination of the strong Saskatchewan delegation was fired by the proposed South Saskatchewan River irrigation and power development costing \$60,000,000, and taking an estimated ten years to build. This plan, they learned, calls for a mighty dam at Outlook creating power for hydro and storing water for the thirsty lands of a large section of Southern and Central Saskatchewan.

It was in this spirit of optimism that the delegates at the Lethbridge meeting launched this new association backed by governmental, agricultural, transportation, business and civic bodies. Officers were elected as follows:

President: A. P. Burns, Medicine Hat; First Vice-President, H. W. Pope, K.C.; Moose Jaw, Sask.; Second Vice-President, A. W. Gray, Rutland, B.C.; Treasurer, Dr. W. H. Fairfield, Lethbridge; Acting Secretary, A. J. Rayment, Chamber of Commerce, Medicine Hat.

DIRECTORS: For Alberta: A. P. Burns, Medicine Hat; J. A. Cameron, Youngstown; Dr. W. H. Fairfield, Lethbridge; P. M. Sauder, Strathmore.

For Saskatchewan: F. J. Dickson, Swift Current; E. E. Eisenhauer, Regina; S. N. McEachern, Saskatoon; H. W. Pope, K.C., Moose Jaw.

For British Columbia: Guy Constable, Creston; A. W. Gray, Rutland; Frank Staples, Creston.

For Manitoba: G. R. Fanset, Winnipeg.

The constitution of the association sets out its territorial scope as Alberta, Saskatchewan and British Columbia with the door open to Manitoba to come in when that province formally applies for membership. Manitoba wanted more time to study the plan with its possible effects on Manitoba waters. "Down stream" interests were pointed out including the possible effect of western reservoir storage on the water levels of Manitoba lakes.

It involves major electrical development undertakings in the province, and it was felt that Manitoba interests in this field must be safeguarded. However, it was suggested that with proper development and allocation of water there should be enough for all interested areas. In this connection the primary importance of conserving the forests on the East Slope of the Rockies was stressed, as it is there the snows are trapped in winter to supply the rivers with water in the spring and summer. It was recognized that the future of irrigation on the prairies is bound up with the preservation of these sources of water in the mountains. This East Slope Forestry undertaking is now in the hands of a joint Dominion-provincial commission headed by Major General Howard Kennedy.

The constitution sets out the board purposes of the association as follows:

"The purposes of the association shall be: to promote the development, control, conservation, preservation and utilization of the water resources of Western Canada;

"To promote by education and other proper means, the reclamation of dry areas by irrigation development, the preservation of the forests at the sources of water supplies, the conservation and control of water resources, hydro electric development as the need arises, flood prevention and soil conservation;

"To assure the compilation of all necessary information applicable to the above purposes; to work for the expansion and co-ordination of federal and provincial agencies dealing with these water resources; to co-operate with and assist such agencies in securing authorization and construction of such projects meeting with the approval of the localities affected; to assist the western provinces and water users thereof in the economical development and operation of water improvements and the integration of their activities with the existing government agencies; to preserve the rights and interests of Western Canada in their water resources; to promote the adoption of legislation in furtherance thereof and to oppose legislation detrimental to these purposes.



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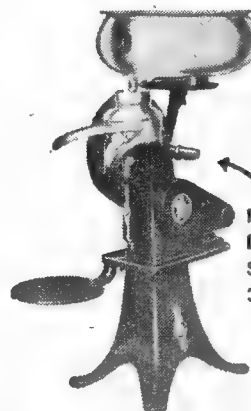
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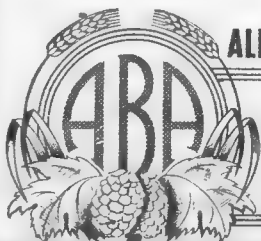
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Will Hollow Aluminum Pipe Revolutionize Prairie Farming?

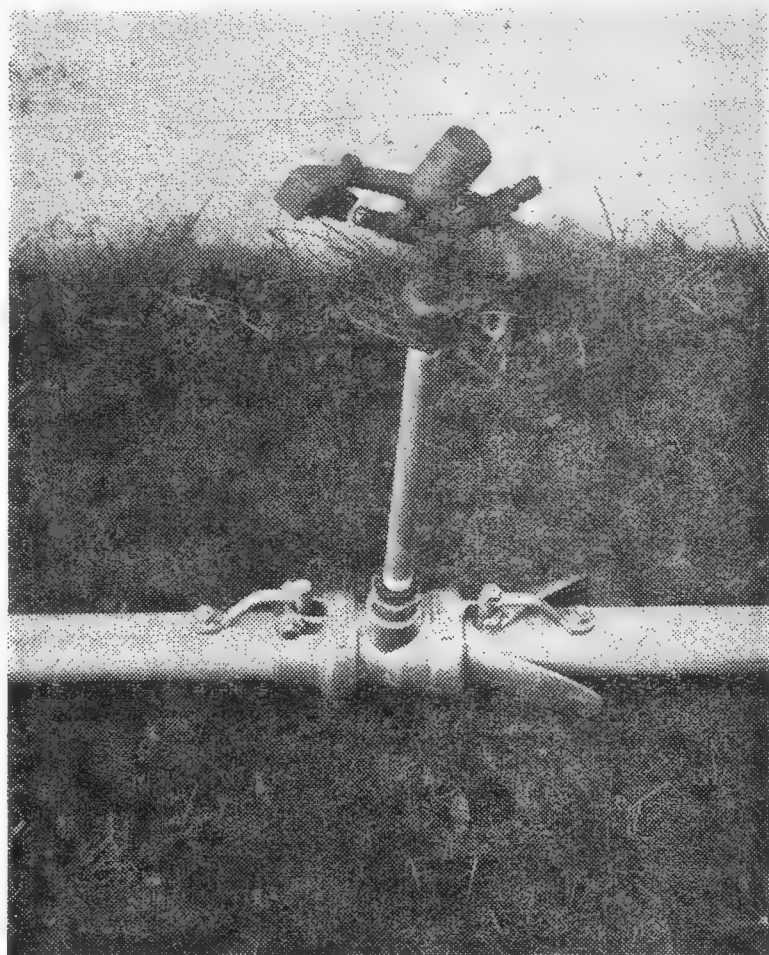
Here is a significant and timely article about a new development. Lightpipe, easily carried and connected, may well take the toil out of irrigation, free more farmers from dependency on rainfall.

By J. J. BROWN

PRAIRIE farmers, looking back uneasily at the recent series of "wet" years, know that this is too good to last, and are searching for some kind of insurance that will guarantee them crops in good weather and bad. Recent improvements in farm irrigation systems now make this dream a reality. The P. F. R. A. through its canal irrigation system is bringing water to many prairie areas; the new aluminum irrigation tubing makes possible inexpensive, easily transportable sprinkler systems for distributing water from the canals to the plant roots.

now coming into use in Canada does not compete with the P. F. R. A. canal irrigation, but is rather its accepted partner. P.F.R.A. brings water to the grower's property, and sprinkler irrigation takes over from there to distribute it more economically and produce larger and better crops.

A typical aluminum irrigation system for a 40-acre plot, as installed by Major Aluminum Products of Vancouver, consists of 660 feet of 5-inch diameter irrigation tubing laid on the ground dividing the square field in half. The tubing comes in 20-ft. lengths which are joined in a single motion by means of sleeve-type couplings. A



Irrigation in one form or another has been used for many years to increase crop yields and as a standby system for drought insurance. The city of Lethbridge, Alberta, is an outstanding example of the social and economic advantages that come to an area as a result of systematic irrigation. During the continued drought of the thirties Lethbridge was an oasis of business activity in a desert of dust storms and abandoned farms.

All during the depression Lethbridge had the largest volume of retail trade per capita of any Canadian city. In spite of the fact that they lived in the center of the prairie dust bowl, farmers of the Lethbridge area were growing and selling as usual, and had money to make purchases from Lethbridge merchants. The comparative prosperity of Lethbridge farmers in the thirties was not because they had better land or better weather, or were more skillful farmers, but simply because they were fortunate enough to have an irrigation system ready for operation when the drought struck.

The all-aluminum sprinkler system

second run of 3-inch diameter tubing, 640 feet long, is coupled to one end of the main line at right angles, and a similar length of lateral is coupled to the other end. This lateral run of pipe is provided with vertical risers which fit into the couplings at 40-foot intervals. The rotary sprinklers fit onto the tops of the risers.

In use, a pump powered by a gasoline or electric motor supplies the feeder line with 250 gallons of water per minute, at a pressure of 41 pounds per square inch. The sprinklers precipitate 3½ inches of water each 12 hours, and would usually be allowed to run 12 hours on sod, or 8 hours on cultivated ground. When the first sections of the field have had sufficient water, first one lateral and then the other is shut down, by closing the valve on that line, and moved to a new position. Every second coupling of the lateral is unfastened, and the 40-foot lengths of tubing, with sprinklers attached, are carried 60 feet and reassembled in a line parallel to the first position. In this way successive tracts are irrigated at 12-hour intervals. In 11 days and nights the forty-

acre field is irrigated with $3\frac{1}{2}$ inches of water.

Sprinkler irrigation systems have been used successfully by California market gardeners for over a decade. Since the war fruit growers in British Columbia's Okanagan Valley have found sprinkler irrigation to be the best kind of crop insurance. Many have paid for their entire system in two years through increased yields. Since the system is not a permanent fixture in the ground, but simple and light enough to be easily transportable from place to place, more and more farmers keep their tubing in use all summer, irrigating land and feed crops, as well as orchards and gardens.

The advantages of sprinkler irrigation over ditch or rill systems are chiefly greater economy and efficiency. The first cost of a sprinkler system is somewhat higher than the cost of digging irrigation ditches, but the yearly labor cost is much lower. When the water is running in irrigation ditches workmen have to stand by continuously to make sure that the water goes where needed. Thus the operating cost of the system in terms of labor is very high.

With sprinkler irrigation, once the farmer has laid the aluminum pipe they can go about other work for the rest of the day. Sprinkler irrigation is particularly valuable on rolling or rough terrain, where ditches tend to wash out the topsoil, and it eliminates the costly levelling required for flood irrigation. For any field where cover crops are required only sprinkler irrigation can be used, since the ditches and rills interfere with the operation of farm machinery.

An important advantage of the sprinkler system of irrigation is that it doesn't waste water. All the water used goes directly on the plants, where it will do the most good. With ditch irrigation it often happens that low areas get too much water and high areas too little. With a sprinkler irrigation system, the farmer can plan his layout without having to worry about

the nature of the terrain. A further advantage of sprinkler irrigation is that soluble fertilizers can be dissolved in the water and evenly distributed over the field.

The cost of an all-aluminum sprinkler irrigation system is difficult to set down exactly, because it is determined by many variables such as the size and nature of the field, the type of water supply, the nature of the topsoil and subsoil, and the prevailing labor rate in the district. A rough approximation of the first cost is \$15 to \$30 an acre, depending on the crop to be grown. This cost is quickly recovered in the form of increased yields.

One Alberta farmer, converting from ditch to sprinkler irrigation, increased his yield of peas from $\frac{3}{4}$ to $1\frac{1}{2}$ tons per acre. Near Lethbridge, a 40-acre plot under irrigation produced 16 tons of sugar beets per acre, the beets showed a 30% increase in sugar content, the quantity of beet tops was doubled, and appreciably less harvest labor was required because the water had kept the ground soft.

Aluminum irrigation systems have the advantage of lightness for easy portability, good appearance, and permanence. One man can carry twenty-foot lengths of 4-inch tubing, with its associated couplings and sprinklers, with ease. The aluminum is bright and clean appearing when new, is corrosion resistant, and will not rust in use. The alloy used for irrigation tubing has roughly half the strength of mild steel, with only one third the weight. The tubing, couplings and all other elements of the sprinkler system are designed to withstand many years of hard use on the farm.

In This Issue . . .
Recipes for
Christmas
on Page 35

Seed Production Rose In Saskatchewan In '48

REGISTERED and certified seed growers increased in Saskatchewan this year by about 58 per cent, from 1,900 to 3,000, Gus Bell, superintendent of the plant products division of the federal department of agriculture, reported.

The 12 inspectors of the division had travelled between 5,000 and 6,000 miles each in a hectic eight-week period, July 1 to August 28, to complete the field inspections of these crops in all corners of the province. The inspectors had worked from dawn to dusk every day during this period in the effort to complete the inspections before the harvest, a task made difficult by the varying conditions found among the crops of the greatly increased applicants.

Mr. Bell said there was a great increase in the acreage sown to registered and certified wheat, though barley, particularly the new malting variety, Montcalm, had also shown a large increase.

Mr. Bell thought the impetus to increased acreage and more growers had been the tremendous export demand and high prices last year for registered and certified seed. As high as \$4 per bushel had been paid for this export wheat last year.

There was nothing at present to indicate there would be the same heavy export market this year, Mr. Bell said. There was a better crop being harvested in Europe, and he thought the

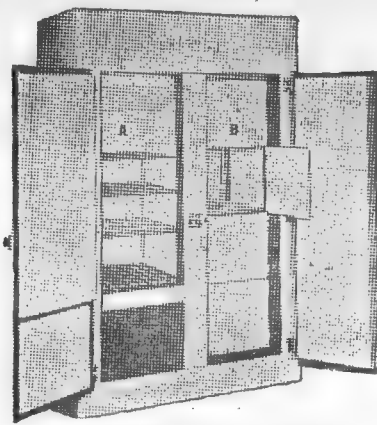
money was lacking to pay for this high-priced wheat for export.

Mr. Bell thought there would be a heavy demand and a good market for forage crop seed this season. The brome grass crop was short this year, and with less seed than last year available, buyers were now trying to get all they could.

He said the alfalfa crop was fair to good, and the seed should find a ready market at more than the average price of the past few years.



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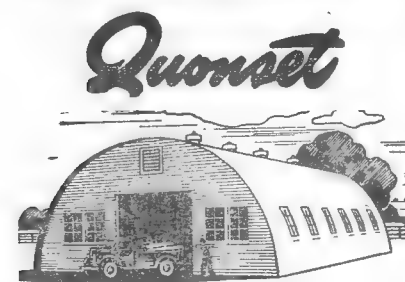
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YOU'RE TELLING US

Here Is What Our Readers Want In A New Farm Home

Prize Letter

To the Editor:

In your September edition I noticed the many letters in response to your question, "What Good Is a Front Door?" and found them most interesting. I intended to write and tell you my opinion, but the busy season was here. A rain has halted everything now, so I find I have time to write and tell you my ideas on "what I want in farm housing."

At present we are living in a two-roomed house, and though, we have fixed it as best we can, we hope it won't be too long before we can build a new house. We have studied a great number of plans, but have not yet found the perfect house for us. I must add, however, that the plans in your paper are excellent, and it is quite evident that the designers know something of the needs of farm housing. Many house plans one finds just wouldn't do for the farm, and though we want beauty we want convenience as well that is especially adapted to farm living.

We would like a one-and-one-half-storey house with a large kitchen, living-room, bath, two bedrooms downstairs, and two bedrooms upstairs, a full basement, a back porch, and a small front porch to enhance the front of the house.

To work from the bottom up, a good foundation and a big basement is a must. The basement should be partitioned into furnace room, coal bin, root vegetable storage, a room lined with shelves to store canned fruits, meats, vegetables, etc.; a utility room and, if possible, a shower.

The utility room would have a sink for the men to wash up, a place to hang their overalls, etc., a stove for canning, the separator, washing machine, and table space. Also lines to dry clothes in winter when they cannot be thoroughly dried outside. All basement walls would be finished in a light color with a touch of color to brighten it up. The basement must have steps to the kitchen and also an outside entrance through which the milk, swill, etc., can be carried and the men can come in and wash up without tracking through the kitchen.

I want a big kitchen with plenty of cupboard space and light. The stove must be near the chimney so that there are as few stove pipes as possible and near the door so that coal and wood need not be carried across the room. Formerly, running water and electricity were considered strictly city conveniences, but many farmers have their own pressure system for water and either a power plant of their own or hooked to the power line. Naturally we plan to have both. The electricity would make it possible to have conveniences too numerous to mention. My telephone would also be in the kitchen, and also a small radio. The kitchen must be large enough to provide a dining area, thus eliminating the necessity of having a separate dining room.

Many living rooms are long and narrow making furniture placing a problem. I want a large living room, with a front door, incidentally!

The bathroom must be so placed that it is easily reached from either bed room downstairs without having to go through any other room. Each bedroom must be provided with clothes closets—nice big ones. For bedrooms may seem like a lot, but if one has a family and usually an

extra man or two they really are needed.

As for the actual construction of the house, it must be well built, insulated, and well finished. This is usually the responsibility of the man of the house.

I could go on and on describing how I want my house to be, but that would almost fill a book. I hope I have given you some idea of what I want in farm housing.

Wishing the *Farm and Ranch Review* every continued success.

Mrs. Albert Meding.

Trochu, Alta.

* * *

Prize Letter

To the Editor:—

As a fairly newcomer to the farm I had a great deal to learn — mostly about the various crops and animals, but I also found out a well-planned city home just doesn't fit the country.

In the first place a person needs a utility room where the men folk can wash up and change; preferably containing a shower, and leading into the kitchen but not crossing that "sacred" part where the woman is preparing the meals.

Secondly, there must be a large kitchen with room at one end for the threshing crew to eat. Dining rooms are costly nowadays, and for the time spent in them not worth it. Large kitchens also allow the mother to keep an eye on any small children playing in one corner.

Thirdly, the man of the house needs a room, call it a den, that will house his guns (out of the youngster's hands) and his farm records. All business deals can be carried on here without any interruptions. Add a studio lounge or a couch and it will also pinch hit as an extra bedroom.

In the fourth place, the master bedroom should be located on the main floor, not too far from the kitchen. In case of sickness this bedroom will call for a minimum of running around.

Fifth. — The downstairs bathroom should be near the bedroom and is a necessity.

Sixth. — The family living-room should be large enough for the family and their friends to sit and talk without anyone having to be relegated to the kitchen.

From the living-room I would wish the stairway to ascend gracefully to the second floor. Here the large landing will contain a comfy built-in win-

dow seat and room for the sewing machine and cupboards.

The two bedrooms found here should contain enough storage space for all toys, games and equipment as well as a good-sized clothes closet in each room.

Another bathroom is called for and I believe essential.

Shall we descend into the basement now?

At the foot of the stairs, which, by the way, are handy to the kitchen, is a storage room for all fruits and vegetables. Space could be left for the building of a walk-in-cooler. Built-in shelves and bins save a lot of work.

Another large room with space at one end for the laundry and the other end devoted to the cream separator is also required.

The rumpus room with built-in bunks or couches along one side will house all the extra men in the busy season without the need of a bunk-house.

The rest of the basement is taken up by the furnace room.

In conclusion, lots of built-in cupboards go a long way in reducing household chores. Of course, electric lights and hot and cold running water will be present in the home we plan to build some tomorrow.

Mrs. J. R. Paterson.

Ogden P.O., Alta.

* * *

Prize Letter

To the Editor:

I have been living, for more than a quarter century, in the house I "dreamed of" for nearly a decade. Here are hints on what to include, and what to avoid:

Do have one down-stairs bed-room and bath. If you can also have a bath upstairs, that is fine. Have your most-lived-in rooms on the south side of the house. Have one, two, or three windows in a room, but unless extremely large, do not have four. (It limits wall space too much, and makes heating more difficult.)

Have a laundry (or work-room) adjoining kitchen instead of in the basement. I have lines strung 5 inches apart, 10 inches below ceiling in my laundry, and can dry half a wash over night, in winter, by leaving kitchen door open. I inch by 3 inch strips hold line hooks.

Avoid too much verandah. A small one, front and back, with roof, is useful; but a large one shades the windows too much for blooming plants.

Have windows set not lower than 26 inches from floor, so that low furniture can be placed under them. I find leaded windows attractive, but not very sturdy. The joints break, by wind pressure. Roller doors do serve

This is Erosion



Manitoba Co-operator Photo

a useful purpose, but are inclined to get off the track, and there is no way to oil them.

Don't waste money on hardwood floors for work rooms. Linoleum will be required anyway. Varnish simply will not survive hard use in a farm kitchen.

We double-plastered our home, but a fire-resistant insulation might be warmer.

Have a solid wall between furnace-room and vegetable room to avoid wilting vegetables. Have a removable window to cool the latter, during mild spells. Have an outside door to basement, and stationary wash-bowl and hooks for wraps in either basement or laundry, for the men.

Our ceilings are 8 feet 6 inches, but for a cold climate 8 feet might be

Good Insurance



Manifoba Co-operator Photo

warmer, and still look all right.

If I was building again I would have space in kitchen for meals for six people. When more accommodation was needed, a gateleg table in the livingroom would serve for banquets. I would abolish the dining-room and den (or office) and have a larger living-room, not too disconnected from the kitchen. A room to live in.

The house should be adequately wired for electricity, by an expert, during construction.

Before even the foundation is laid, be sure you have an adequate water supply at hand.

The modern trend toward inconspicuous window and door casings is a great improvement, also slab doors, without panels. Much easier to keep clean.

Lastly, keep indoor colors light and cheerful; and washable walls are a great comfort, as well as saving much labor in re-decorating.

Leta R. Porter.

Czar, Alta.

Prize Letter

To the Editor:

I have been very much interested in your articles on Rural Housing. The plans you have published have been the most sensible I have seen to date. Of course I may be prejudiced as the August plans are much similar to the ones I drew for myself in 1946. I like the stair arrangements in your plan but prefer my kitchen plan, as I object to a plan having a traffic lane between cabinets and stove. Your plan shows no table-top space adjacent to stove which is most inconvenient. I also think there should be a wall between kitchen and dining room to keep kitchen heat out of dining room. A dining room 10 ft. 6 in. by 12 ft. will seat ten men comfortably without the table extending out into the kitchen.

Some of the reasons holding back construction of farm homes are: (1) If there is any kind of a house on the farm when a young couple starts farming it must do until the farm is paid for. In order to pay for the farm new machinery and outbuildings have priority. By the time they feel able to afford to build a new home they are almost ready to retire, so why build.

(2) The building of a three or four thousand dollar home on a farm does not increase the price received for a farm by three or four thousand dollars, so, apart from comfort and convenience, is actually a poor investment. If depreciation were allowed on the Income Tax Return for the farm home it might overcome this in part.

(3) Farming is such a gamble with drought, hail and frost the farmers hesitate to build unless they have the cash.

Mrs. W. C. Taylor.

Wainwright, Alta.

Prize Letter

To the Editor:—

My sincere thanks for giving readers a chance to air their opinions.

My first opinion is: Sure, we need more new farm-house designs, both for middle-aged or old couples, or young growing families. One- and two-storied houses or bungalows. I am praying for a side door for the use of strangers, leading into kitchen and hallway. A separate wash up, utility room for all who work or play outdoors and no necessity to get in the way of the housewife.

Why not leave muddy, wet rubbers and clothes there? It should be warmed the same as the rest of the rooms. The housewife could wash, dry and iron in there, too.

A kitchen window facing the highway, and if possible catch the sun in winter months would be useful to start plants, too. A hall is useful—full length—handy for bathroom, which, if next to kitchen, would provide more privacy.

Then a good basement partitioned off for a work-shop, or play-room. A cool part for vegetable and fruit storage, and necessary in every part of Canada a place to dry clothes in wet or freezing weather. Sure its another prolonged dream of mine. The majority of farmers are content to make the old house do. Serves us right. Every time Pa spends money for new improved gadgets, livestock or buildings, then the housewife should demand a few improvements in the house. After all he lives there too, and usually is the first to take the neighbors through to see what a good husband he is.

B. C. Farmerette.

Erickson, B.C.

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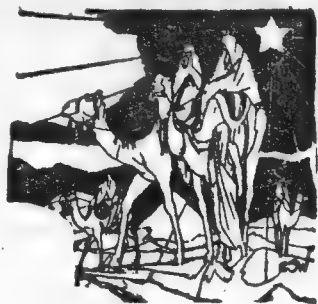
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It's Still Not Too Late To Windproof Farm Lands

EVERY farm operator in Western Canada knows that if he has bare soil it is likely to drift unless it is rough. It is too late now to preserve a good trash cover or to get a cover crop, so if soil is in a dangerous condition the only remedy is to make it rough. This can be done either by mold board plowing or by listing.

Some farmers on medium textured soils, such as loam and silt loams, have found that plowing summer-fallows in the fall protects them until the grain is high enough to make them safe in the spring. Even

tivator as listing furrows may be placed four feet apart. If a duck-foot cultivator is not available a one-way disc can be converted into a lister by removing all but every fourth disc. Listing should be at right angles to the prevailing wind.

Some fields that have been well packed by irrigation or rain can be left quite rough by a deep duck-foot cultivating. Sugar beet fields and potato fields on the irrigated lands are often protected satisfactorily by a late fall cultivating with the ordinary duck-foot cultivator. This does not leave the fallow in as safe a condition



in a dry fall, such as this, summer-fallows almost invariably are moist enough to plow. If plowing is done, it must be deep enough to turn under the dust mulch that has accumulated, and so leave the top cloddy. Usually it is not safe to depend on fall plowing on light soils or on clays.

Listing is the only safe procedure on sandy or clay soils, and it is preferred to plowing on the medium-textured soils by most farmers. Listing can be done easily and cheaply by equipping a duck-foot cultivator with lister shovels which can be purchased from the implement dealer. Only three to four shovels are required for a cul-

tivator as listing furrows may be placed four feet apart. If a duck-foot cultivator is not available a one-way disc can be converted into a lister by removing all but every fourth disc. Listing should be at right angles to the prevailing wind.

If fields are permitted to go into the winter without being properly protected winter listing with a one-way lister will be required, and any field that is likely to drift in the spring should be cultivated or plowed as soon as the frost is out of the ground.

The methods described have been used so many times with success that one does not hesitate to say that it is sheer carelessness to let fields drift. Every field should be wind-proofed. — (Lethbridge.)

Uses Expand For Power Sprayers

A DEMONSTRATION of the uses that can be made of a power-driven sprayer — a machine that has become familiar on Manitoba farms since the introduction of chemicals for weed-control — was undertaken during the past summer by Agricultural Representative L. H. Jones, Manitoba Department of Agriculture. With the co-operation of officials of the Dominion Experimental Farms System, who supplied the pressure pump with motor and tank, the financial support of three rural municipalities, and the technical advice of R. H. Painter, Livestock Insect Laboratory, Lethbridge, Mr. Jones made use of the sprayer wherever possible — using the farming district around Hamiota for the experiment.

The general policy was to do a complete job on each farm while on the premises. Farm buildings and homes were washed, disinfected, and whitewashed. A total of 3 farms were sprayed with DDT — livestock, inter-

iors of stables, pig pens, etc., manure piles, and any other places where insects are likely to breed.

"The results of these DDT demonstrations were quite encouraging," Mr. Jones states. Spraying buildings brought almost complete housefly control. The first spraying of cattle was effective for six to eight weeks. Spraying sheep with DDT to control ticks was also found to be highly successful.

Cost of these operations, on an average farm consisting of 4 head of cattle, 10 pigs, a large barn, a hen-house, a brooder house, 2 poultry range shelters, and a pig pen, amounted to \$8.00. "On nine farms the buildings were whitewashed at the same time at a somewhat added cost," the report adds.

In the village of Hamiota, DDT was applied to back lanes, toilets, and garbage cans at a cost of \$26.90. As a result of the application, the housefly population decreased sharply. The yellow-headed spruce sawfly and the

fir sawfly, both of which have caused considerable damage to spruce trees in shelter belts, were brought under complete control with the help of a single-nozzle spray-gun which was used to shoot DDT to the tops of the trees.

In the municipalities of Hamiota, Manitoba, and Blanshard, a total of 68 miles of road allowance was sprayed with 2,4-D. For an outlay of \$368.65, shared by the three municipalities, all willows and ragweed were reported completely wiped out.

"The work done this summer was well received, and there is a real demand for additional spraying another

year," Mr. Jones states in conclusion. "There is no doubt, in an area comprising three municipalities, an operator and the equipment could be employed full time. The sprayer could start out in the early spring on warble fly control, then start the DDT spraying for the control of flies and mosquitoes by the first of June. During the latter part of June and July the sprayer would be required for spraying scrub, weeds, and shelter belts. During the fall and early winter, washing, disinfecting, and white-washing buildings would keep the sprayer busy."

An Eight-Year Rotation For Mixed Farming

ON a large percentage of farms in Manitoba no definite crop rotation is followed. Farmers, however, increasingly are seeking information on rotations that include hay, pasture and annual forage crops, says Bonar J. Gorby, Dominion Experimental Farm, Brandon, Man.

The following 8-year rotation is proving practical for farmers who wish to establish a thoroughly useful and well-balanced system of cropping. The sequence of crops in this rotation is fallow, grain, grain seed to hay, hay, pasture, breaking, grain, grain.

One-half of the total acreage is in grain each year and one-eighth each in hay, pasture, stubble fallow and sod fallow. Grass remains down two years. It has been found advantageous to allow a full year for breaking sod. This sod fallow replaces a like acreage of stubble summer-fallow that would be included in a straight grain rotation.

One practical objection to this cropping sequence is that the seeding to grass with a second crop of grain sometimes results in a poor stand or a failure of the forage seed, especially in dry seasons.

In the drier parts of Manitoba it has been found wise to seed hay with the crop on summer-fallow. When this is necessary land should be retired to grass for three years if the 8-year rotation is to be followed.

Among other advantages, this rotation makes possible a pairing of fields as a plan to reduce the number of cross fences. Pasture and fallow are paired together, also grain and sod breaking, hay and grain, and grain and grain. In other words, the 1st and 5th years are paired, the 2nd and 6th, the 3rd and 7th, and the 4th and 8th. The retiring of land regularly to grass aids materially in maintaining necessary root fibre in the soil and in controlling wild oats and other weeds that thrive in grain fields.

On the station farm at Arborg, where peat soils abound, wheat on summer-fallow in this rotation has averaged 29 bushels and hay 2½ tons per acre during the last ten years. On heavy Red River soil at Dugald, the ten-year average of wheat has been 31 bushels and hay 1.4 tons per acre.

At Katrime, in Central Manitoba, on a medium silt loam soil, wheat has averaged 30 bushels and hay 1.1 tons during the last eight years.

Don't Get Familiar With Electricity

ELECTRICITY is one of the most beneficial of modern conveniences, but it must be treated with respect. A second's carelessness may mean disaster.

E. B. Martin, Extension Agricultural Engineer, Alberta Department of Agriculture, warns of the danger of working with electric appliances or wiring in damp locations. In the basement, livestock buildings, and pump house, damp floors can produce an excellent ground. In the event of shock while standing on this moisture, the person involved is subject to the full effect of the charge.

Care with electricity in bath room and kitchen is essential. Never switch on electricity while in the bath. If you keep electric heaters, radios, or similar appliances out of the bath room there will be no danger of their falling into the tub and electrocuting the occupant.

The Alberta Electrical Protection Act states that plug receptacles shall not be installed in the bath room. In the kitchen, never pick crumbs out of plugged-in hot plate or toaster with a knife or other metal object. More than one serious accident has resulted from this cause.

Keep appliance cords in good repair. Frayed or worn they can cause fire or shock. Never run extension wires under carpets or through curtains.

The fuse is one of the most important parts of the wiring circuit. It is there for your protection. It guards against overloads and abnormally high charges which might heat the wiring circuit.

If fire occurs, shut off the electricity leading to the building involved. The first impulse is to pour water on the fire, but if the water is thrown on wires that are carrying electricity, the full force of the voltage will be directed through the water to the thrower. Shut off the electricity first.



CAPITAL \$7,000,000

RESERVE \$10,000,000

IMPERIAL BANK OF CANADA

74th ANNUAL STATEMENT

Year Ending October 30th, 1948

ASSETS

Deposits with and Notes of Bank of Canada	\$ 41,336,391.54
Notes of and Cheques on Other Banks	19,428,277.59
Other Cash and Deposits	9,278,131.57
Government and Municipal Securities (not exceeding market value)	186,278,469.28
Other Bonds and Stocks (not exceeding market value)	14,963,957.27
Call Loans (secured)	6,305,327.57
TOTAL QUICK ASSETS	\$277,590,554.82
Commercial and Other Loans (after full provision for bad and doubtful debts)	176,991,342.62
Liabilities of Customers under Acceptances and Letter of Credit (as per contra)	10,999,824.94
Bank Premises	6,138,956.40
Other Assets	122,578.08
	\$471,843,256.86

LIABILITIES

Deposits	\$441,115,976.35
Notes in Circulation	789,892.50
Acceptances and Letters of Credit Outstanding	10,999,824.94
Other Liabilities	209,043.83
TOTAL LIABILITIES TO THE PUBLIC	\$453,114,737.62
Dividends due Shareholders	212,740.40
Capital, Reserve and Undivided Profits	18,515,778.84
	\$471,843,256.86

PROFIT AND LOSS ACCOUNT

Profits for the year ended 30th October, 1948, after contributions to Staff Pension Fund and after making appropriations to Contingency Reserves out of which full provision for bad and doubtful debts has been made	\$ 1,836,578.91
Provision for depreciation of Bank Premises, Furniture and Equipment	279,466.22
	\$ 1,557,112.69
Provision for Dominion and Provincial Taxes	588,000.00
	\$ 969,112.69
Dividends amounting to \$1.05 per share	735,000.00
Balance of Profits carried forward	234,112.69
Profit and Loss Balance 31st October, 1947	1,281,666.15
Profit and Loss Balance 30th October, 1948	\$ 1,515,778.84

RESERVE FUND

Balance at credit of account 30th October, 1948	\$ 10,000,000.00
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W. G. MORE,
President.

I. K. JOHNSTON,
General Manager.

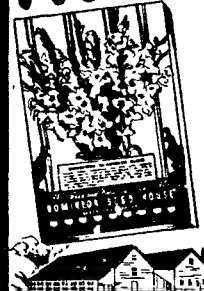
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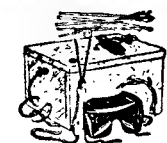
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IN NATURE'S WONDERLAND

There's Excitement in the Woods On a Quiet Christmas Morning

By KERRY WOOD

IT was Christmas morning, a crisp but sunny day with a clean coating of snow piled high on spruce branches, mushroomed over stumps and fence-posts, and spread like a fluffy comforter across the fields and woodlands. Along the creek I walked, looking for tracks. The snow had stopped at sundown on Christmas Eve, ending a two-day storm. Most wood-folk stay a-bed during winter storms, so I knew that the ending of the blizzard would be welcomed by the hungry ones and likely the starry night of Christmas Eve had been a busy time of foot hunting for my wild neighbors. As a turkey dinner appetizer, I intended to walk a mile or more and look for story-trails printed on the vast white page of fresh snow.

First tracks seen were rabbit trails, criss-crossing through the stream-side willows and linked like chains across the creek. There was one spot where a bunny had come to the edge of the creek bank, where the overhanging lip of snow had given way to tumble: the rabbit down four feet to the frozen surface of the stream. Peter had landed right side up, but he'd been startled and his tracks were widely spaced to show how he'd gone leaping away from there at full speed.

The rabbits had feasted on osier willow bark; at one spot they'd found an aspen poplar felled by beavers during the autumn and dined richly on its green bark. Porcupines, beavers, rabbits, and certain mice are all fond of poplar bark, with even the lordly wapiti sometimes resorting to this fodder during hard winters. But the rabbits had not been alone there: at one patch where their tracks were crazily etched in every direction, the telltale wing marks of a large owl showed on either side of a bunny trail. The talon marks where clearly imprinted in the snow, showing that the Great Horned Owl had missed catching its supper. And further on the wing marks showed again, mute testimony to the night bird's persistence. But the rabbit got away, that time.

A Fish Is Caught

Around the next bend of the creek I came to the high piled barrier of a beaver dam, and at the lower edge of this dam there was a small patch of open water where the current was swift. A flicker of movement caught my eye — something dark was streaking away from this water and loping up the bank. Just as it reached the mouth of a bank-side hole, the animal turned and glanced curiously back at me. It was a mink, a large one wearing a lovely black coat. Then it darted into the convenient hole and disappeared.

But beside the open water I found the headless body of a small sucker. The six-inch fish was still limp to the touch; it had been caught only a few minutes before. Every spring the fat gray suckers with their red-finned male consorts come up this tributary from the Red Deer River, spawning in the creek before returning to the main river by June. Here was the result of that spawning: a school of six-inch suckers lived in this deep stretch of creek where the beavers worked. Vision the Mink had spotted the school and had denned nearby so that he could go angling daily in the ice-bound pool.

On again, then I paused to stare at a squirrel's track that started from the very middle of the creek and went

racing away to the base of a nearby spruce tree. A queer thing: how did the squirrel get out in the middle of the creek without leaving track-signs behind it? I glanced aloft, and saw where the snow had been brushed off a spruce branch on the trackless side of the creek and suddenly had my answer. The animal was a Flying Squirrel; attempting to glide across the creek opening, it had come out to the end of the branch to start its leap. The snow became loosened and fell, swaying the branch just as the squirrel jumped. So it got a poor send-off, ending up smack in the middle of the creek and then racing to the nearest spruce tree on the far shore.

Up a Squirrel Highway

I climbed out of the creek-bed to follow the squirrel marks. Looking closely at the spruce trunk, I saw the tiny marks of the squirrel's claws punctured through the flaky spruce bark. The whole side of that tree had been used as a squirrel highway for years. Nearby, a mound-shape and a few more tracks identified a cone-cache made by a red squirrel — it looked like our friend the Flying Squirrel had spotted the cache after climbing the tree and had come down again to raid it and carry off a cone. During the winter season, squirrels practically live on the seeds hidden between the leaves of spruce cones. They store a few mushrooms on tree crotches, too, and go exploring in crevices and hollow logs for any frozen insects they can find.

I well remember the delighted excitement of a red squirrel who discovered a large wasps' nest one winter afternoon; it tore open the paper palace and scooped up every frozen wasp carcass it could find!

Birds and Mice

Up through the spruce woods I walked, pausing to watch the whistling flight of a flock of white-winged Crossbills undulating over the forest. These birds have a specialized beak that has the points criss-crossed so that they can easily pry open the cones of spruce and pine to get at the seeds. They spend the summers in the mountain forests, but spread down over the foothill and parkland woods during the winter. It is fascinating to watch their parrot-like behavior on the tops of spruce trees, walking and hopping from twig to twig in quest of cones.

On a mossy bank I found a neat track, the tiny trail of a White-footed Mouse. This is the handsomest member of the mouse family, a big-eyed, large-eared little mouse with a dainty, cleanly look about it so different from the repelling appearance of a house-mouse. Near the mouse trail there was another and smaller track, and I had visions of a Cooper's Shrew hunting down the pretty White-footed mouse. Shrews are seldom seen, but are fairly common in our woodlands — they are the smallest carnivorous animals in North America. Ferocious

little beasties, they can eat their own body-weight in food three times a day! They prey mostly on insects and mice, therefore we should cheer them on their hungry way.

Coming to the uplands where the farm fields stretched away to the hilly horizon, I found a coyote's lonely trail and started to follow it across the snow-covered stubble. Here the wild dog had paused to stand, facing towards the farm house. Perhaps a farm collie had barked, sensing the presence of an intruder. And perhaps the coyote had raised its muzzle and produced that yapping yodel which sounds so wild and lonely on a tingling winter's night. Then the coyote had trotted on, suddenly swerving to pounce on a hummock.

The marks showed where his fore-paws came down together, then the imprint of his muzzle as he stuck that sharp nose between his pads to secure the vole or meadow mouse his paws were holding. One gulp, and it was gone. But we can marvel at the sharpness of those ears that heard the soft rustle of a vole's movement under eight inches of snow. And note the accuracy of that jump, with the paws coming down directly on top of the mouse. And let us praise the coyote's work in killing off another of our farm pests, the grain-and-grass eating meadow mouse that does so much damage yearly to western farm crops.

I was distracted from the coyote's trail at this point, because a flock of Redpolls alighted on the exposed weed-heads along the nearby fence line and started feeding on the seeds. These sparrow-birds are called Winter Canaries by some, because of the sweet canary whistles they utter. Domestic canaries are members of the same finch-family to which the Redpolls are related. Each bird has a tiny patch of red on the crown of the head, while the males have a flush of pinkish purple down the breast to distinguish them from the females and juveniles. They are friendly little birds, permitting me to get within ten feet before the flock whisked away to another weed patch.

Attack and Retreat

Walking the fence line, I startled a flock of Hungarian Partridges from a clump of wild rose cover. The hardy game birds rose with a staccato burst of cackling and sped away on fast wings. Watching them, I saw a blue-grey Goshawk come rushing towards them, swooping from the side. But the partridges swerved, dodging frantically to miss the hawk's attack. The gos failed to strike a victim, then the partridges dodged into a willow clump, running as they landed and suddenly disappearing from view. The hawk whirled and darted into the willows, just as I started running towards it to frighten it away.

But before I could get there, the gos came in sight, cackling harshly and with his talons empty. Then the marauder, the only seriously harmful hawk we have in Canada, saw me coming and whirled away to hunt elsewhere. When I got close to the willows the Hungarians burst out of the snow and flew again — they'd buried themselves in a soft drift to hide from the questing hawk, which explained why the gos hadn't spotted their dark bodies against the white background!

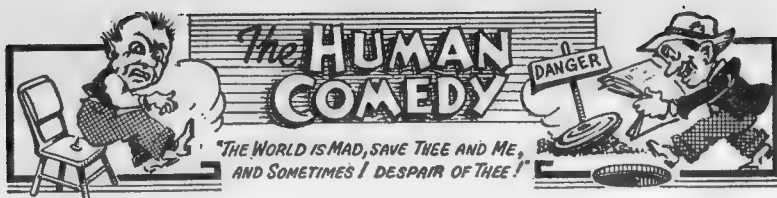
As I headed towards home and Christmas turkey, I passed near a knoll where there was a heavy growth of snow-berries. On these frozen fruits the Pine Grosbeaks were feeding, nearly a dozen of the plump birds. One rosy male was perched on a willow limb above the patch, with the bright sun spot-lighting the colorful bird. Then the male raised his beak and uttered that soft but rich warbling song, a lovely carol in praise of Christmas Day.

Have the Children

Seen Our

Page of Puzzles?

PAGE 24



First Things

In Surrey, England, a choosy burglar broke into Mrs. Margaret Wall's house, ignored the furs, jewelry, liquor and money, got away with an apple and an orange.

Perfectionist

In Santa Barbara, Calif., Mrs. Evelyn C. Hart, 95, asked police to hurry over and "do something" about her 70-year-old daughter, "because she uses bad language and I am afraid that the neighbors will think I'm not a careful mother."

It's You

In Rochester, N.Y., Harold F. Ritz climbed from his car to have words with the motorist who had bumped him, found it was his wife.

Technicality

In Savannah, after seven years and four children, Lee Cuyler and fiancée Isabelle DeLancey finally got around to using their marriage license, issued in 1941.

The Rod

In London, 75% of the parents polled by the War Office said it was perfectly all right with them if military schools wanted to cane their sons. In Nottingham, England, the Education Committee ruled that headmasters must take a 30-minute cooling-off period before striking.

Prerogative

In Chicago, after three divorces and 13 separations from the same man, Mrs. Ruth Slifer decided she had "had enough", sued her husband for a fourth divorce.

Footnote

In Milwaukee, Rookie Mailman Harry A. Kant, arrested for throwing away a batch of mail that he had not delivered, frankly admitted to police: "My feet were tired."

Retreat

In Joliet, Ill., Prisoner Arthur Hiller vainly pleaded with Warden Joseph E. Ragen to extend his jail sentence for six months, so that he could finish a theology course.

Close

In Pasadena, Calif., Patrolman D. B. Gleason flagged down a motorist who was weaving erratically back and forth across the highway, let him go when the motorist explained: "Everything's O.K. Just shaving."

Hypotenuse

In Pittsburgh, Elizabeth Sauer arrived by air from Germany to marry ex-G.I. Ralph Gaber, got a friendly peck on the cheek from Ralph's younger brother Karl, promptly decided to marry Karl instead.

What Was That?

Near St. Charles, Ill., while Farmer Maurice Regole's silo exploded and collapsed the barn against the feed shed, which in turn knocked the windmill over the implement shed, Farmer Regole peacefully slept on, reported to neighbors next day that he had heard "a slight noise."

Initiation

In Santa Maria, Calif., the rent control office moved to different quarters when landlord boosted the rent.

Mail Call

In Eloy, Ariz., when assured that there was no mail for him, Cotton-Picker Earl Neal shot it out with Postmaster J. C. Garrett; both were killed.

Great Expectations

In Queens County, N.Y., Cabdriver John Wagner raced Passenger Andrew Mackey to the courthouse, was told to wait, an hour later inquired within and found that his fare had been sentenced to six months.

Old Fame

In Washington, Ralph Miller asked a stranger for a light, claimed the lighter he had lost three years ago in the South Pacific.

Modern Tempo

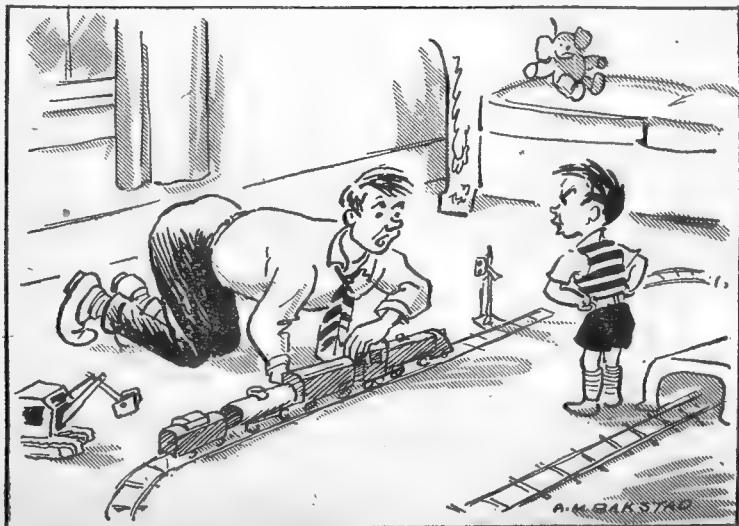
In Portland, Ore., Frank A. Staeger, questioned for holding up traffic, explained to police that he had fallen asleep while waiting for the light to change.

Good Clean Sport

In Belgrade, an athlete named Danubic, champion of a sport that has become increasingly popular in the Balkans, set a new Yugoslav record: 256½ feet for the grenade throw.

Routine

In Baltimore, bystanders explained to police why they had made no move to help Mrs. Rita Franke when she ran screaming up the street holding on to a burglar's coattails: they thought it was just an ordinary husband-and-wife spat.



"Got yer Engineer's License, Pop?"

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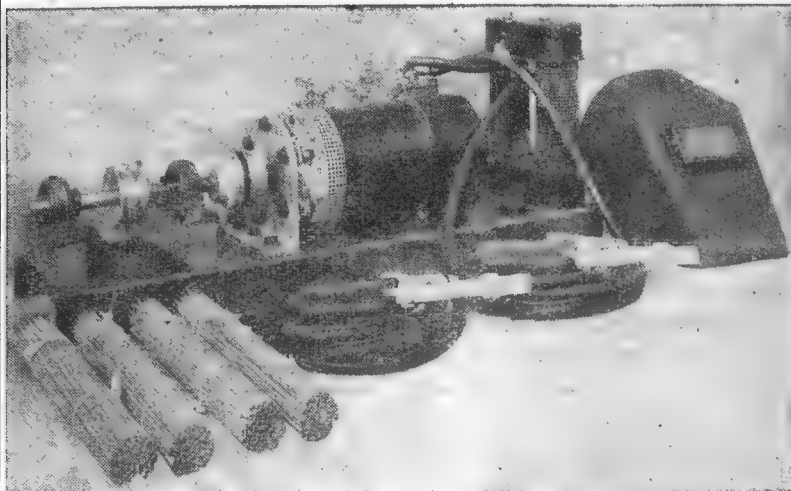
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Scope of 2,4-D Further Extended By Testing and Experimentation

By W. TREVOR HOLLAND

WINNIPEG: Repeated but light applications of 2,4-D will prove effective against bindweed, perennial sow thistle and Canada thistle. Dr. L. M. Stahler told the second annual weed control conference in Winnipeg last month.

He pointed out that recent results have shown that repeated light applications have proven more effective than single heavy treatment in the elimination of weeds.

Weed experts from all parts of Canada and the United States attended the conference, under the auspices of the National Weed Committee of Canada (Western Section). There were 309 delegates registered and many interested representatives were there, but did not take part in the discussions.

H. E. Wood, Chairman of the organization, told the visiting delegates that the steadily improving cultural practices, now largely mechanized, together with the rapidly expanding acreage of field crops being treated with chemicals, speaks well for the future of weed eradication. He estimated that 4,000,000 acres were treated with 2,4-D this season in the three prairie provinces.

Dr. L. M. Stahler, United States Department of Agriculture, Brookings, S.D., was guest speaker at the annual banquet held in conjunction with the Retail Implement Dealers' Association. He covered briefly the recent developments in weed control, and

reported the findings of recent research work.

Referring to the development of 2,4-D, Dr. Stahler said that many farmers have worked too long with herbicides such as sodium chloride, to be able to grasp the full potentiality of this new weed control chemical.

He said, "We can not help but realize that efficient, cheap control of our worst potential weeds such as bindweed, Canada thistle, and perennial sow thistle, is available to the average farm operator through repeated light applications of 2,4-D."

This new method of repeated light applications has proven more successful than single heavy treatments in the elimination of weeds. Additional research, however, is necessary to determine the most practical use of 2,4-D in conjunction with crops.

Dr. Stahler also reviewed recent discoveries in the weed eradication field, including the accidental discovery, that ordinary solvent naphtha is a good herbicide for control of water weeds, with no crop damage. It has also been found that common molasses or molasses plus nitrate, applied a few

ounces per square yard, will give an extended period of soil fertility.

Tests conducted in the past two years by individual farmers and agricultural stations, have yielded much information as to the proper use of chemicals. The Manitoba report, presented by H. E. Wood, indicated that annual weeds are most easily and quickly destroyed in the early stages of growth. Climatic conditions also affect the results.

Pre-emergence tests, using 2,4-D, conducted by the Manitoba Weeds Commission, showed various results with no effect on cereals, and considerable success in legumes.

Eradication of woody growth by spraying with 2,4-D and allied chemicals, has proven effective and cheaper than by mechanical means. As mixed woody growth shows much variation as to susceptibility, the ester form of 2,4-D was recommended at approximately 1½ to 2 lbs. per acre. The addition of from 5 to 10% oil to any 2,4-D solutions, speeds up the kill.

Reports of the various committees, following the general sessions, of the conference, included one from the Weed Classification Committee. Both annual and perennial weeds were divided into four classifications: highly susceptible, susceptible, partially resistant, and resistant. The list given included only those plants on which information has been obtained in Western Canada. In many cases, the information is meagre and some of the reports conflicting. Therefore, the classifications were not completely reliable.

The Herbicides Committee gave a table of suggested amounts of 2,4-D acid (amine and ester), per acre, to use on cereal or flax crops to control weeds in Western Canada.

Stage of weed growth
Early Advancing
(Ounces acid per acre)

Annual weeds		
Highly susceptible	3	3 to 5
Annual weeds		
Susceptible	3 to 4	4 to 6
Annual weeds		
Partially resistant	4 to 6	6 to 8
Perennial weeds		
(Top growth control)	4 to 10	

For the highly susceptible and susceptible weeds the sodium salt formulation may be substituted using one and one-half times the dosages recommended in the table.

Cereal crops should not be treated until they have attained a height of 6 inches or until 3 weeks after emergence.

Flax should be treated as soon as weed growth warrants, providing the flax plants have already formed 4 or 5 leaves. Severe damage to flax may result if treated after the early bud stage.

The higher rates recommended in the table (8 ounces or more for flax) may at times cause some crop injury. In many cases, however, such injury will be off-set by reduction in weeds.

You'll Find the Words
to Your Favorite
Carols
on Page 2



East to West
OGDEN'S
the Gift is
that's best!

Ogden's FINE CUT

EASY TO ROLL—DELIGHTFUL TO SMOKE



"I never knew that anything stuffed with hay could be so hard."

A Page of Poems for Christmas

CHRISTMAS is a time for recalling old friends and old friendships. The past somehow seems closer to us at Christmas than at any other time of the year. One Christmas recalls another and our memories go flickering back down the years like our eyes along the coaches of a slowly moving train. Queer things pop into these memory trails, the trying on of a pair of skates 30 or 40 or 50 years ago, a big Christmas dinner at Grandma's when turkeys seemed ever so much bigger than they are today, a new scarf, a new puppy, a pony tied in the barn.

Memories come in snatches, queer little unconnected snatches when we are alone with our thoughts on Christmas. Snatches of poetry we memorized from the old school reader. A random line from the Elegy and suddenly our brows are knit up as we say to ourselves: now how did the rest of that go?

So we thought it might be appropriate to include a page of poetry, the kind of stuff all of us used to memorize long ago. Some of it will be familiar, some of it strange; but all of it is ideal for reading aloud around home after dinner. None of the poems is complete. Perhaps some of them don't seem to make too much sense. But we like them and we think you will, too.

The Day Is Done

The day is done, and the darkness
Falls from the wings of Night,
As a feather is wafted downward
From an eagle in his flight.

I see the lights of the village
Gleam through the rain and the mist,
And a feeling of sadness comes o'er me
That my soul cannot resist:

A feeling of sadness and longing,
That is not akin to pain,
And resembles sorrow only
As the mist resembles the rain.

Come, read to me some poem,
Some simple and heartfelt lay,
That shall soothe this restless feeling,
And banish the thoughts of day.

And the night shall be filled with music,
And the cares, that infest the day,
Shall fold their tents, like the Arabs,
And as silently steal away.

—Henry Wadsworth Longfellow.

On His Seventy-Fifth Birthday

I strove with none; for none was worth my strife.
Nature I loved, and next to Nature, Art;
I warmed both hands before the fire of life,
It sinks, and I am ready to depart.

—Walter S. Landor.

A Man's A Man For A' That

What though on homely fare we dine,
Wear hodden-grey an' a' that;
Give fools their silks and knaves their wine,
A man's a man for a' that.

For a' that, an' a' that,
Their tinsel show an' a' That,
The honest man, though e'er so poor
Is king of men, for a' that.

—Robert Burns.

Elegy

The Curfew tolls the knell of parting day,
The lowing herd winds slowly o'er the lea,
The plowman homeward plods his weary way,
And leaves the world to darkness and to me.

Now fades the glimmering landscape on the sight,
And all the air a solemn stillness holds,
Save where the beetle wheels his droning flight,
And drowsy tinklings lull the distant folds;

—Thomas Gray.

The Soldier

If I should die, think only this of me:
That there's some corner of a foreign field
That is for ever England. There shall be
In that rich earth a richer dust concealed;
A dust whom England bore, shaped, made aware,
Gave, once, her flowers to love, her ways to
roam,
A body of England's, breathing English air,
Washed by the rivers, blest by suns of home.

—Rupert Brooke.

I Remember, I Remember

I remember, I remember,
The house where I was born,
The little window where the sun
Came peeping in at morn;
He never came a wink too soon,
Nor brought too long a day,
But now, I often wish the night
Had borne my breath away!

I remember, I remember,
The fir trees dark and high;
I used to think their slender tops
Were close against the sky:
It was a childish ignorance,
But now it's little joy
To know I'm farther off from heav'n
Than when I was a boy.

—Thomas Hood.

Barefoot Boy

Blessings on thee, little man,
Barefoot boy with cheek of tan!
With thy turned up pantaloons,
And tiny merry whistled tunes;
With thy red lip, redder still
Kissed by strawberries on the hill;
With the sunshine on thy face,
Through thy torn brim's jaunty grace;
From my heart I give thee joy,—
I was once a barefoot boy!

—John Greenleaf Whittier.

From the Rubaiyat

A book of verse beneath the bough,
A jug of wine, a loaf of bread—and thou
Beside me singing in the wilderness—
Ah wilderness were Paradise enow!

I sometimes think that never blows so red
The rose as where some dying caesar bled
That every hyacinth the garden wears
Dropt in her lap from some once lovely head.

Ah love! Could you and I with Him conspire
To grasp this sorry scheme of things entire,
Would we not shatter it to bits—and then
Re-mould it closer to a heart's desire!

—The Rubaiyat of Omar Khayyam.

Sweet and Low

Sweet and low, sweet and low,
Wind of the Western sea,
Low, low, breathe and blow,
Wind of the Western Sea!
Over the rolling waters go,
Come from the dying moon and blow,
Blow him again to me;
While my little one, while my pretty one, sleeps.

—Alfred, Lord Tennyson.

Little Boy Blue

The little toy dog is covered with dust,
But sturdy and stanch it stands;
And the little toy soldier is red with rust,
And his musket molds in his hands.
Time was when the little toy dog was new
And the soldier was passing fair,
And that was the time when our Little Boy Blue
Kissed them and put them there.

—Eugene Field.

Abou Ben Adhem

Abou Ben Adhem (may his tribe increase!)
Awoke one night from a deep dream of peace,
And saw within the moonlight in his room,
Making it rich and like a lily in bloom,
An angel writing in a book of gold:
Exceeding peace had made Ben Adhem bold,
And to the presence in the room he said,
"What writest thou?" The vision raised its head,
And, with a look made of all sweet accord,
Answered "The names of those who loved the
Lord."

"And is mine one?" said Abou. "Nay, not so,"
Replied the angel. Abou spoke more low,
But cheerly still; and said, "I pray thee, then,
Write me as one that loves his fellow-men."

The angel wrote, and vanished. The next night
It came again, with a great wakening light,
And showed the names whom love of God had
blessed,—

And, lo! Ben Adhem's name led all the rest!

—Leigh Hunt.

Invictus

Out of the night that covers me,
Black as the Pit from pole to pole,
I thank whatever gods may be
For my unconquerable soul.

In the fell clutch of circumstance
I have not winced nor cried aloud.
Under the bludgeonings of chance
My head is bloody, but unbowed.

Beyond this place of wrath and tears
Looms but the Horror of the shade,
And yet the menace of the years
Finds, and shall find, me unafraid.

It matters not how straight the gate,
How charged with punishments the scroll,
I am the master of my fate:
I am the captain of my soul.

—William Ernest Henley.

Essay On Man

Honour and shame from no condition rise;
Act well your part, there all the honour lies.
Fortune in men has some small difference made,
One flaunts in rags, one flutters in brocade;
The cobbler aproned, and the parson gowned,
The friar hooded, and the monarch crowned.
"What differ more [you cry] than crown and
cow!"

I'll tell you, friend! a wise man and a fool.
You'll find, if once the monarch acts the monk,
Or, cobbler-like, the parson will be drunk,
Worth makes the man, and want of it the fellow;
The rest is all but leather or prunella.

—Alexander Pope.

Home-Thoughts, From Abroad

Oh, to be in England
Now that April's there,
And whoever wakes in England
Sees, some morning, unaware,
That the lowest boughs and the brushwood sheaf
Round the elm-tree bole are in tiny leaf,
While the chaffinch sings on the orchard bough
In England—now!

And after April, when May follows,
And the whitethroat builds, and all the swallows!
Hark, where my blossomed pear-tree in the hedge
Leans to the field and scatters on the clover
Blossoms and dewdrops—at the bent spray's
edge—

That's the wise thrush; he sings each song twice
over,
Lest you should think he never could recapture
The first fine careless rapture!
And though the fields look rough with hoary dew,
All will be gay when noontide wakes anew
The buttercups, the little children's dower
—Far brighter than this gaudy melon-flower!

—Robert Browning.

A Psalm of Life

Tell me not, in mournful numbers,
Life is but an empty dream!—
For the soul is dead that slumbers
And things are not what they seem.

Life is real! Life is earnest!
And the grave is not its goal;
Dust thou art, to dust returnest,
Was not spoken of the soul.

Art is long, and Time is fleeting,
And our hearts, though stout and brave,
Still, like muffled drums, are beating
Funeral marches to the grave.

In the world's broad field of battle,
In the bivouac of Life,
Be not like dumb, driven cattle!
Be a hero in the strife!

Lives of great men all remind us
We can make our lives sublime,
And, departing, leave behind us
Footprints on the sands of time;

Footprints, that perhaps another,
Sailing o'er life's solemn main,
A forlorn and shipwrecked brother,
Seeing, shall take heart again.

Let us, then, be up and doing,
With a heart for any fate;
Still achieving, still pursuing,
Learn to labor and to wait.

—Henry Wadsworth Longfellow.

Getting Deaf?

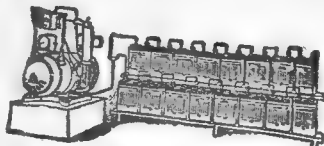
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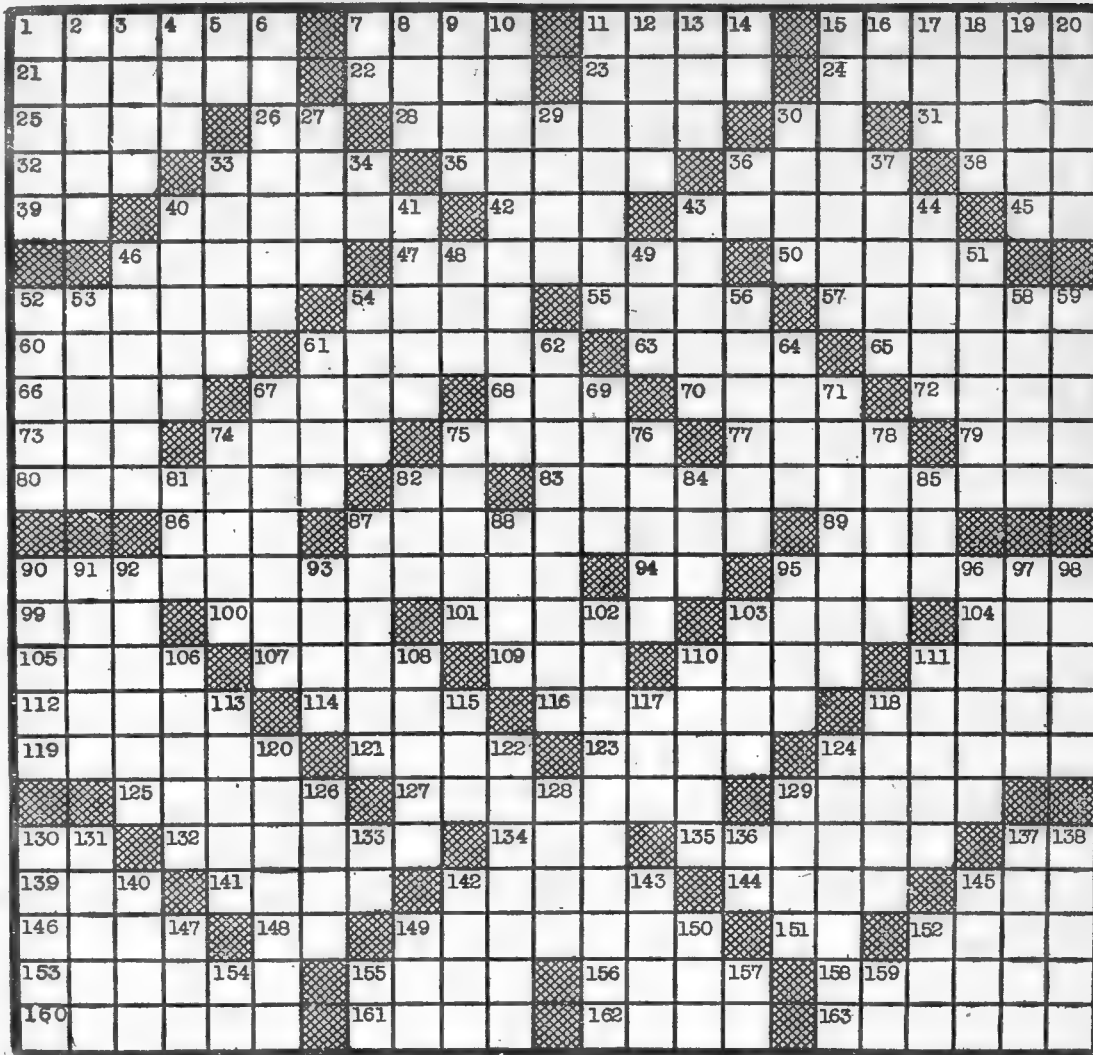
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OUR CROSSWORD PUZZLE



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Solution Next Month.

HERE'S to YOUR HEALTH!

Sight For The Sightless

A MAN who had been blind from babyhood until his late 20's tried to tell what it was like to see: "At first the myriad of detail demanded so much attention I had to try to look at things. There was, and still is, no ugliness in things that can be seen. Even a wad of paper, wet and soggy in a dirty gutter, contains design and color that are not unpleasant to look upon. All things are beautiful . . . and I have found life is beautiful, too . . . Thanks to my good vision, we face a future of independent security here on our Pennsylvania dairy farm."

The man was able to see again, because he got new corneas for his eyes through the Eye Bank for Sight Restoration. Last week the eye bank's third annual report told about his case. Other recent cases: a railroad worker, blinded by sparks, now has normal (20/20) vision. A nun from Ontario cried with joy when she saw her doctor's hands as he completed an operation to graft new corneas on her eyes. A Long Island mother, able to see only light and shadow since childhood, can now see her husband and two children.

The driving force behind the eye bank is a smartly dressed, stylish woman named Aida de Acosta Breckinridge. One day last week the telephone rang in her small office on the first floor of the Manhattan Eye Ear and Throat Hospital. Mrs. Breckinridge answered briskly: "Oh, yes. A little baby's eyes are wonderful. We'll call for them tomorrow." Another Manhattan hospital had called to say

that some parents had offered the corneas of their dead child so that another person might see. The Red Cross would handle the delivery to the eye bank. A telegram lay on Mrs. Breckinridge's desk saying that the next of kin were offering the eyes of a man dying in a Cincinnati hospital. Mrs. Breckinridge arranged for an airline to fly them east, carefully refrigerated in salt solution (results are best when eyes are removed an hour after death and used within three days).

Mrs. Breckinridge reads with difficulty and wears dark glasses to guard her own eyes from glare. Twenty-six years ago she was stricken with glaucoma, an eye disease that often causes blindness. While waiting for her eyes to heal after an operation she began to wonder what she could do for her surgeon, the late Dr. William Holland Wilmer. She raised nearly \$5,000,000 among his patients to establish the Wilmer Ophthalmological Institute at Johns Hopkins. Four years ago a group of Manhattan eye surgeons asked her to help start the eye bank. She is now executive director.

Last year, with eyes from the eye bank, 333 corneal graft operations were performed, 90% of them successful. The operation can restore sight only when blindness is caused by damage to the cornea. Among conditions the operation cannot cure is glaucoma.

—From Time Magazine.

Food Cravings And Superstition

There is a common superstition that a person should eat whatever he has a craving for since it shows the system needs it. Craving for acids supposedly means the body needs acids; craving for sweets means the body needs sugar. Dire results are said to follow if the craving is not satisfied, especially in a pregnant woman. Nutrition experts point out that these beliefs are fallacies and that cravings are no guide to body needs. They can more safely be ignored than indulged.

Water At Work

It was formerly thought that water taken at meals hindered digestion and that it was therefore a mistake to drink water at mealtime. It is now known that, although water dilutes digestive juices, these fluids operate more efficiently when diluted.

Water taken at mealtime is not harmful unless it is used merely to swallow down unchewed food. Experts warn, however, that when the stomach is suddenly cooled, digestion is interrupted. So water with meals should only be cool enough to make it palatable.

Too Much Water

Cool, clear water is fine for drinking. But nutritionists say that for cooking vegetables it is not so desirable. Water for cooking should be boiling and salted when the vegetables are placed in it.

RIBTOR



The Surplus Sale Mail Order House

This December Shopping List Features Many Bargains in Practical Christmas Gifts.

WHITE ENAMELWARE —
10" white enamel plates, 6 for \$1.00
5" white enamel bowls, 6 for \$1.00
Roasters, 7" x 11", white enamel with lid. Each 98c

FLASHLIGHT BATTERIES — Tested, nationally advertised brand. Regular 15c each. Special, each 8c

OIL FILTERS — "Fram" and "Purolator", complete with cartridges. Auto size, \$3.95; Truck size \$5.50

HOT WATER BOTTLES — Made by Dominion Rubber. 1 quart capacity. Reg. price \$1.19 79c

LANTERNS — Kerosene lanterns. Used, but in good condition. Clear globes, 49c. Globes only 10c

TRUCK TIRE CHAINS—8.25 x 20. Heavy duty, singles. Pair \$13.50

TIRE CHAIN PLIERS—Made by American Chain Co. Small and medium size \$2.50

TOW ROPES — 3/4" Manilla rope, 15' long with grab hook and loop \$2.50

WELDING OUTFITS

By "Rego", consisting of 2 lengths of hose, 2 sets of gauges, 1 welding torch, 5 tips and 1 pair welding goggles. Surplus Sale Price \$79.50

VICES — Rock Island, 3 1/2" swivel base. Ruggedly built anvil-back garage vise that opens 5". Complete with removable pipe jaws at no extra cost, making them the most, universal general home work-shop vise possible to obtain. Slightly used, but a wonderful buy at \$6.75

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COLD WEATHER SUITS — Navy blue gabardine with hood. Satin lined, zippered legs. Ideal for hunting or working outdoors in cold weather. Surplus Sale Price \$19.50

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HACK SAW BLADES—Brand new, made of high-grade Tungsten steel. 12" long, 18 tooth. Regular price \$1.50 per doz. 98c

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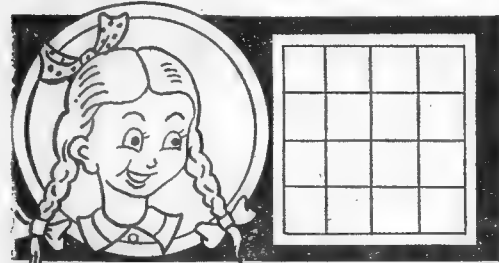
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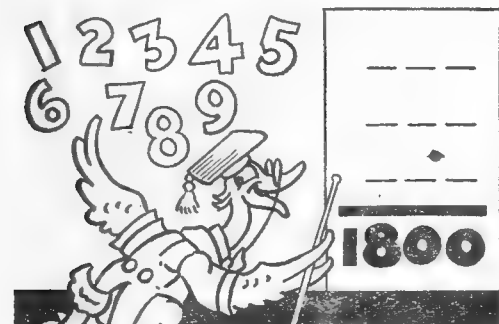
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A.W. NUGENT
THE WORLD'S
LEADING
PUZZLEMAKER



A B C D E F G H
I J K L M N O P



YOU ARE REQUIRED TO PRINT TWO OF EACH OF THE 16 GIVEN LETTERS, IN EACH BOX, IN SUCH A WAY THAT THE SAME LETTER IS NEVER REPEATED IN ANY ROW ACROSS OR DOWN.



TRY TO JUGGLE THE ABOVE NINE SINGLE NUMBERS, OVER THE DASHES, SO THAT THEY WILL SUM UP TO EXACTLY 1800. (A.W. NUGENT)



START WITH ONE OF THE SEVEN LETTERS SHOWN ABOVE THAT WILL MAKE A ONE-LETTER WORD. THEN ADD ANOTHER LETTER TO FORM A TWO-LETTER WORD. CONTINUE ADDING ONE LETTER AT A TIME TO FORM SEVEN WORDS, ONE AFTER EACH ADDED LETTER. CAN YOU DO IT?

HERE IS AN "ADDOORABLE" TRICK. BOLDLY STATE TO YOUR FRIENDS THAT YOU CAN STAND ON THE SAME NEWSPAPER WITH ANYONE PRESENT AND HE OR SHE WILL BE UNABLE TO TOUCH YOU. . . . IF YOUR CHALLENGE IS ACCEPTED, GO TO THE DOOR OF THE ROOM, LAY THE PAPER ACROSS THE SILL AND TELL YOUR VICTIM TO STAND ON ONE SIDE OF IT; THEN CLOSE THE DOOR.

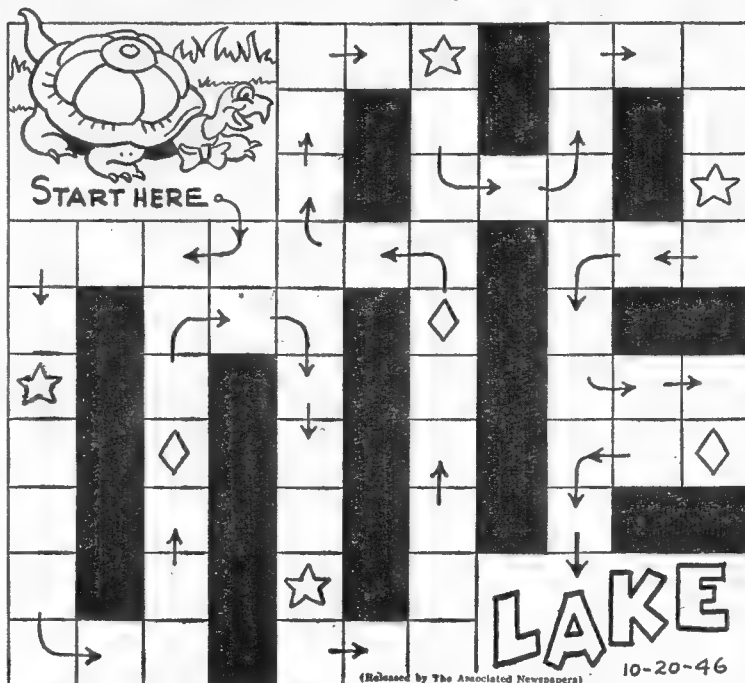
YOU WILL CERTAINLY HAVE MADE GOOD YOUR PROMISE.



TURTLE TO LAKE GAME

TWO PERSONS CAN PLAY, EACH MUST HAVE A SMALL MARKER TO REPRESENT THE TURTLE. . . TAKE TURNS FLIPPING A COIN. . . WHEN HEAD TURNS UP ADVANCE YOUR MARKER 3 SQUARES AND IF TAIL TURNS UP MOVE AHEAD 2 BOXES.

WHEN YOU STOP DIRECTLY ON A STAR, MOVE FORWARD 5 SQUARES. . . IF YOU STOP ON A DIAMOND YOU MUST GO BACK 5 BOXES. THE PLAYER WHO LEADS THE TURTLE TO THE LAKE FIRST, WINS.



ONE BLOCK ABOVE TWO BLOCKS,
ONE BLOCK BETWEEN TWO
BLOCKS, ONE BLOCK BENEATH
TWO BLOCKS.
HOW MANY BLOCKS
IN ALL?

CAN YOU COMPLETE THIS CROSS-WORD PUZZLE BY PRINTING THE NAMES OF SIX PIECES OF MEN'S WEARING APPAREL IN THE EMPTY ROWS OF SQUARES READING ACROSS AND DOWN?

THE OLD WOMAN WHO LIVES IN A SHOE JUST BOUGHT THE CLOTHES FOR HER HUSBAND.



THE GREAT MAJORITY
DEA TBAHD OHSCBFDL CN
GHDP HBA WPANWZ DC OHX
FX YAPDBCLFXT OHXL
EHBONWZ EXPARDP.

CAN YOU READ THE ABOVE CRYPTOGRAM MESSAGE?

JUST TO GIVE YOU A START WE HAVE SOLVED THE FIRST THREE WORDS, "DEA TBAHD OHSCBFDL" TRANSLATED READ "THE GREAT MAJORITY." BY USING THE SAME SYSTEM OF TRANSLATION THROUGHOUT YOU CAN READ THE SENTENCE WRITTEN IN CODE. A REPEATED LETTER IS ALWAYS THE SAME CODE-LETTER.

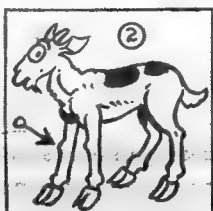
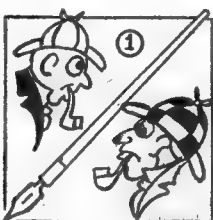
CAN YOU COMPLETE THIS PICTURE?



CONNECT ALL THE DOTS IN NUMERICAL ORDER.

(A.W. NUGENT)

WHAT TWO PARTS OF THE HUMAN BODY DO THESE PICTURES REPRESENT?



PUZZLE SOLUTIONS:

THE LETTERS IN "TRAIN YOUR LOVE" WILL SPELL REVOLUTIONARY. (A PEN "DICKS").
2, KIDNEY (KID KNEE).

LETTER ADDING: 1, I; 2, IN; 3, SIN; 4, SING; 5, SINGE; 6, SINGER; 7, SINGERS.
MANY HARMFUL INSECTS.
BATS ARE USEFUL TO MAN IN DESTROYING RYPPOGRAM: THE GREAT MAJORITY OF AND HAT, DOWN, COLLAR, ACROSS-COAT, GLOVES
PUZZLE
SHOE CROSS-WORD
THREE BLOCKS.
THERE ARE
PUZZLE
BLOCK

1800
PROBLEM
429
618
753
1800
ACROSS-COAT, GLOVES
PUZZLE
SHOE CROSS-WORD
THREE BLOCKS.
THERE ARE
PUZZLE
BLOCK

M	B	C	O	P	E
N	J	O	K	P	A
E	J	K	G	L	M
A	F	G	C	H	D

LETTER
PUZZLE:

10-20-46

(Released by The Associated Newspapers)

How To Interest Youth In Careers On The Farm

By C. E. WALDNER, Vanguard, Sask.

WHY are so many farmers finding it difficult to keep their sons on the farm? Perhaps this condition is not quite so severe on large, well-mechanized farms, but it is on small farms with little or those without mechanization.

One reason for this is the large farmer is able to buy or rent land for his sons and provide them with first-class working equipment. And equipping the farm with electricity to provide city conveniences makes farm operations easier and more profitable.

But if few of these fortunate lads fail to become interested in the farm, the situation on small farms is entirely different. The small farm is not in possession of first-class equipment. The small farm income is uncertain at times. The young lads feel that city life is more desirable. They imagine that the pay is more sure and on the line each and every week. As a result the small farmer must take on all the farm tasks by himself while his sons drift to the city.

Therefore the writer intends to outline a rather simple solution, with the hope in mind that many of the smaller farmers reading this article will give it a trial.

The following suggestions should work wonders on the smaller farms in keeping young men on these farms, enjoying themselves at making a rather profitable living out of a business of their own. Mr. Farmer, has it ever occurred to you that although you enjoy farm life under the conditions of which your farm is operated, that your son wouldn't give a hoot to such a way of making a living? Therefore, if you want your son to remain on the farm where he can be of some help to you, you should try to encourage him to try to develop a profitable business of his own.

The time to prepare for this is when your son is still attending public school. Those sons that have grown up and desire the excitement the world has to offer, need money to spend and they will definitely go some place where they think they can get it. But the ambition of younger sons can be directed toward the farm as a livelihood.

The best way to start is with books, books on other occupations that can be carried out on the farm such as books on trapping, fur farming of every description, angoras, domestic rabbits, bees, poultry, cattle, hogs, etc. These books should be of the very best obtainable, as it is the high-priced books that deal with a subject in full detail in every respect.

Fur farm supply stores in every part of Canada can supply fur-farming literature as well as monthly fur-farming magazines. Farmers should have a number of subscriptions to keep up with latest developments. Books alone may run out of style considering the continued advancement of all occupations. Literature on poultry, bees, sheep, cattle, hogs, gardening and many others can be obtained free of charge from the provincial department of agriculture.

The main idea is to keep a good stock of these books of the latest description at all times. As your son grows older he will become interested in one of these occupations and the first thing Mr. Farmer will hear from his son is:

"Hey, dad, you know what—I think I'm going to start . . ." right then and there you will be realizing your fondest hopes. From the great variety of books your son will

have the opportunity to choose which business he thinks he will like and can make a success of. For that reason it would be advisable not to interfere too much with his ways of planning as he may become discouraged. Always remember what may appeal to a father may not interest a son. Let him make his own mistakes.

Here, for example, is what can happen! I left home as soon as I left public school to work until the age of 20, when I returned to the farm to raise mink. I have made a success of building up my ranch from 3 to 160 mink since 1945. And mink, by the way, are far from being known to "multiply like rabbits." I am very contented with my business, and find mink a very interesting business. I have also helped a great deal towards building up the farm, had it not been for the mink, this farm is the last place I would be today. But had there been a library containing a good, up-to-date mink book when I left public school I would already have made a fortune out of the mink. Thus without that library five years were lost, and I sorely regret it more than I can put into words.

Then there is the case of some friends, who blindly, without full knowledge, invested in certain lines (none of which mentioned above) while attending high school. Later they became interested in Angoras, but by that time were seeking employment to make a go of it, they are now working on low-wage basis. Had a

Don't Miss !!
The Full Page of
Christmas Verse
on
Page 21

library been available when they first began to make investments, they would no doubt own a large, profitable Angora business by now.

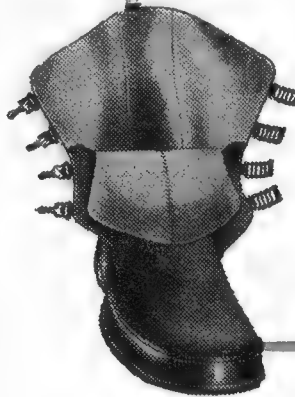
A third example is of a lad leaving the farm for the west coast, finally ended up raising Angoras which he could have done more profitably on

the farm. These are only a few examples. There you have it, Mr. Farmer. Be of help to your son by placing before him the knowledge on how many people the world over become successful and your son will be of help to you at the same time.

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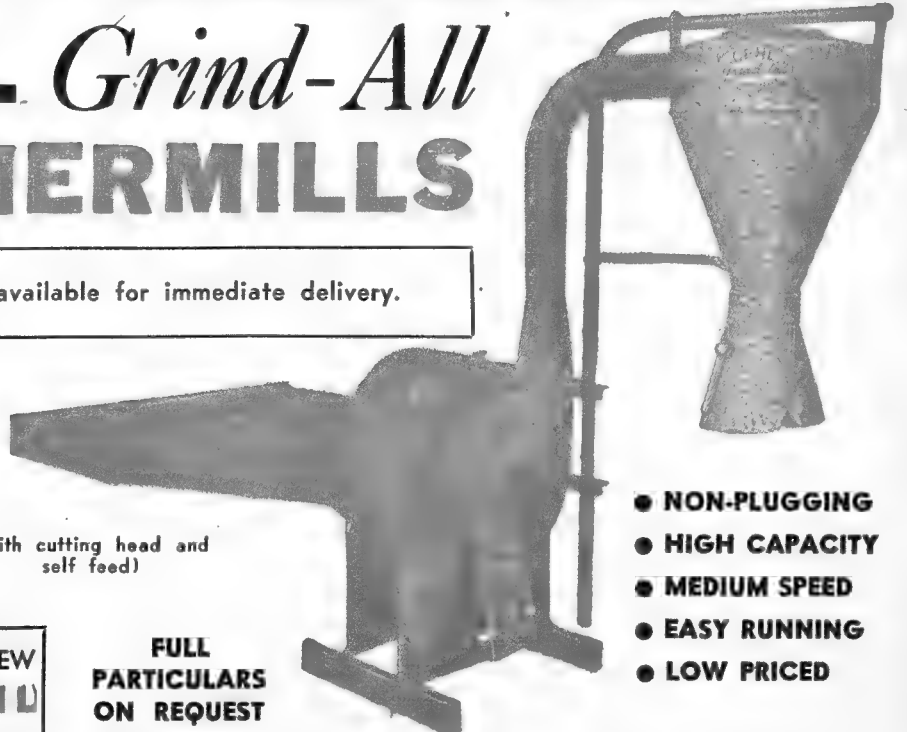
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B.C. ROUNDUP

Booming Berry Market Produces New B.C. Co-operative Union

Despite loss of British market, apples are moving out. Water levels of Okanagan Lake is cause of concern and muskrat which damage dykes now open game for farmers.

By A. J. DALRYMPLE

ONE of the fastest growing co-operatives in the West is the Pacific Co-operative Union, a berry organization. There were 240 members before the war, and latest figures show about 2,300 members. They operate five receiving, processing and distributing plants in the Fraser Valley, with main offices in Mission City.

Chief reasons for the rapid growth include: heavy demand for fruit at home and abroad during the war, and the great influx of urban and suburban population into B.C. in recent years. Many prairie farmers have sold out big farms on the plains with the idea of making money on small acreages on the coast.

The co-operative ships fresh fruit, frozen product, fruit in solution known as SO₂, in casks; and also manufactures jam. They have a number of marketing problems; one is to produce berries that will stand the long haul to the prairies and arrive in fine, firm condition.

They are also establishing markets for processed berries abroad. This year they have sold to U.S.A. and South Africa, and they are trying to sell to Australia.

When 26 officials of the federal and provincial departments of agriculture, B.C. department of health and welfare and other organizations met in Kelowna they passed a resolution calling for the addition of iodine to all salt destined for human and animal consumption in Canada.

The action was taken after Miss R. M. Y. Love, consultant on nutrition, stated: "Vitamin and mineral deficiencies occur in people's diets far more extensively than commonly believed. Surveys reveal deficiencies in Calcium, iron, and vitamins B, C and A." She stressed the necessity of iodine in salt.

Other resolutions asked for: fortification with vitamin C tomato juice on basis of its ascorbic acid content as well as on its color and solids content; an investigation into the fluorine content of Okanagan drinking water and Okanagan fruit.

The Apple Market

Despite the loss of the British market through the dollar shortage, Okanagan apples are moving. Shipments have gone to 26 states of the American union; about 50,000 boxes were destined for South Africa. Small shipments went to Brazil.

Sales on the prairies are said to be fair; those in Eastern Canada are spasmodic since they are affected by the marketing of local crops.

Okanagan apple crop this year is estimated as down 20 to 25 per cent. Total marketings are expected to be about 5,625,000 boxes.

Farmers and city dwellers of the Okanagan are worrying over water levels. This is true of their neighbors in Washington state. The water resources branch of the U.S.A. geological survey warns of floods next spring.

It is estimated this year's flood caused more than \$100,000,000 damage in the Pacific Northwest of the U.S.A., with between 40 and 45 deaths.

Extraordinary conditions in the Okanagan have prevented the lowering of the lake to a satisfactory level, and

residents are still feeling the effects of the high waters.

Lands Minister E. T. Kenney says: "Everything possible is being done to lower the level of Okanagan Lake, but this cannot be accomplished too rapidly because of the capacity of the outlet.

"Any faster reduction would result in destruction of lands below Penticton and endanger the main water supply of the south Okanagan. Work on Creston dykes, where greatest losses in the interior were suffered, is progressing favorably."

Total of 840 cases of flood sufferers have been investigated; work has been completed on 384 cases.

Muskrat Menace

Muskraats burrowing in the dykes weakened the structures prior to the floods. An amendment has been made to B.C. game regulations which permits farmers to kill these animals by any means, and so rid the dykes of them. Previously trapping was the only means by which they might be taken.

One problem of farmers in the Fraser Valley has been obtaining agricultural lime. This resulted in the formation of a company known as Clinton Lime Holdings Ltd., two miles from the village of Clinton.

It is said that the lime deposit is 98.9 per cent pure and there are an estimated 2,500,000 tons to work on. It lies on both sides of the Pacific Great Eastern Railroad. In fact the rails in one place are laid on 80 feet of it.

A screening plant has been constructed. Officials say that the operation will be simple and economical. Bulldozers simply push the limestone down the side of a hill to the plant.

From there it is moved into a pulveriser. It goes over a screen and then may be separated into any one of four aluminum-lined bins.

It is said that this limestone, being so pure, may be used as the base for 60 other products besides agricultural lime. These include chick grit, rock-wool and other building materials.

Canada's Good Eggs

Addressing poultrymen in New Westminster, G. R. Wilson, senior Dominion poultry inspector for B.C., recently returned from World's Poultry Congress, said: "Tests in Liverpool showed Canadian storage eggs equal in quality to fresh eggs from Northern Ireland.

"It is now up to you to see that you sell to Britain. As far as quality is concerned you have nobody to beat."

Inspection and blood-testing of poultry flocks in B.C. has been under way for some weeks, but the total is about 50 per cent less than last year at this time.

It would appear that there may be a shortage of hatching eggs for 1949 season unless more applications for testing are received by officials.

University of B.C. and government agencies are working night and day to raise standards and productivity in this branch of the industry. A number of lecturers on scientific poultry-raising are appearing at village meetings this fall.

Agricultural production of B.C. for 1948 will run into \$130,000,000, according to estimates made by provincial department of agriculture. This is a

slight reduction from 1947. Floods contributed to the losses.

Value of the apple crop has been put at \$12,964,000, as compared with slightly more than \$14,000,000 last year. Value of all fruit crops was placed at \$24,500,000. In 1947 the fruit crop was valued at \$25,703,000.

The fourth annual B.C. Live Animal Fur Exposition held in Exhibition

Garden, Vancouver, Nov. 14-15-16 attracted a number of exhibitors from the prairies and from the Pacific northwest states.

There were 538 animals in the show, a slight increase in numbers over last year. With the exception of a few marten and fisher from Hudson's Bay Company farm, all the exhibits were mink.

Fine Showing By The West At Royal Winter Fair

TORONTO: — They may not have swept everything before them, but western exhibitors at the Royal Winter Fair carried away a lot of prizes. Here are only some of the prize winners who emerged at the top from very tough competition:

Saskatchewan and Alberta men gained world grain championships. John Allsop of Red Deer, became the Wheat King; Louis Robbins of Laura, Sask., took the barley crown; Sam Horton of White Fox, Sask., the alfalfa crown, and R. Wennerstrom of Camrose, Alta., the rye title. A noteworthy feature of these victories was that all the winners are practical farmers.

Two Neudorf, Sask., men, a father and son team, took the top flax awards. Louis Wendell, Jr., won the championship, while his father gained the reserve award.

The championship in white oats went to an Alberta farmer, John Boulton of Abee, while the reserve championship was won by Victor Watson, a registered seed grower from Airdrie.

Watson's entry had previously won first in its class with a sample of Victory oats.

Larain oats won the world's title for Mr. Boulton, while the barley championship went to L. Robbins of Laura, Sask., with an exhibit of Hanchen.

The Alberta winners in the various seed and grain events follow:

Oats, white — 1, John Boulton, Abee, Alta. (Laurin); 2, Emmett G. Mohler, Camrose (Victory).

Alsike — 1, Thomas Torlett, Clairmont.

Sweet Clover — 1, L. A. Anderson,

Camrose (Sweet Clover); 2, C. H. Lynk, Lahareville (Yellow Blossom).

Miscellaneous Grasses — 1, V. Watson, Airdrie (Creeping Red Fescue); 2, L. A. Chatengy, Red Deer (C.R.F.).

Oats, white early — 1, Norbert Frederick, Busby (Larain); 2, T. E. Brown, Cassils (Larain); 3, P. Yawoshin, Eckville (Larain).

In the livestock field an Alberta Percheron mare owned by Hardy Salter of Calgary made history. Never beaten in the showing, Starlight Koncarness won her 20th grand championship.

E. F. Noad of Olds won the Hereford grand championship, and D. R. Buchanan of Clive was first in the class for Aberdeen-Angus.

H. Ready of Desford, Man., took the Shorthorn steer title.

Grand championship in the summer bull, yearling division, Herefords, went to Warren Smith of Olds, Alta.

First and second in the junior bull calf class were won by A. W. Crawford-Frost of Nanton.

In the Shorthorn division, the Lacombe experimental farm won the senior championship.

T. G. Hamilton, of Innisfail, Alta., placed first in the aged cow and first and second in the junior bull calves class.

Miss Gloria Klaver of Calgary won the reserve championship with her Palomino mare, Golden Princess. Palomino entries at the show broke all previous records.

Alberta won the championship and reserve in butter, but Manitoba emerged with the most prizes — 49. Manitoba won 43 per cent of all the butter prizes awarded.



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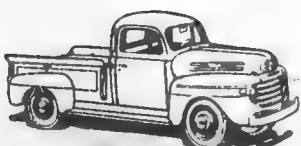
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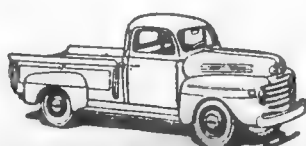
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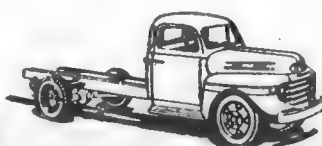
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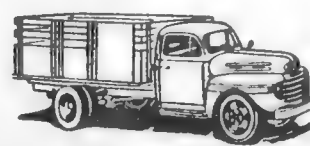
SERIES M-47 PICKUP



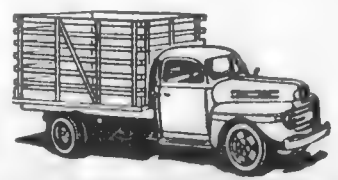
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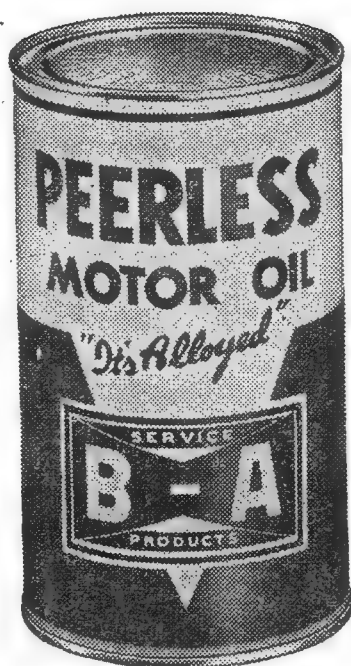
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THE BRITISH AMERICAN OIL COMPANY LIMITED



Farm Mechanics Courses In Sask. and Manitoba

MANITOBA'S first extension course opened at Brandon on November 29, and a second will begin after the New Year. Saskatchewan has announced the details of courses which begin on January 11 and run through until February 19.

The Saskatchewan diesel engine and gasoline engine course begins on January 11th and concludes February 5. The blacksmithing and welding course starts February 7. The fee for the first is \$15 and for the second \$10.

The first Manitoba course, divided into farm motors week and farm mechanics week. They covered subjects ranging from engine construction and valve grinding to farm electrification and sewage disposal.

Manitoba charges a flat fee of \$20 which includes tuition and board and room.

Inquiries about the courses should be addressed to the Extension Department, University of Agriculture, Winnipeg.

Sask. Allots Land to Vets

REGINA — Some 21 sections of crown land in the Carrot River district have been allocated to veterans for settlement on an individual basis, it was announced by Hon. J. H. Sturdy, minister in charge of rehabilitation.

"Returned men settling in the area as individual farmers will receive exactly the same assistance granted those settling on co-operative farms," the minister emphasized. "This includes allocation of 320 acres per veteran," he said. "As in the case of the co-operative farms in the area the land will be held on a 33-year renewable lease, with the option to purchase at the end of 10 years."

New C.N.R. Trophy For Winter Fair

TORONTO — The opening of the Royal Agricultural Winter Fair was marked by the presentation by R. C. Vaughan, chairman and president, Canadian National Railways, of the new C.N.R. challenge trophy for the world's championship in wheat. The trophy, which is for annual competition, was received by J. A. Northey, president of the fair on behalf of the directors.

In making the presentation, Mr. Vaughan stressed the value of wheat and agricultural products to our national economy and pointed out that wheat has assumed a new vital role in the world's war recovery program. He said that the National System felt privileged to participate in any effort to improve and stimulate wheat production throughout the Dominion.

Manitoba Pool Earnings

MANITOBA Pool Elevators showed a net surplus of \$1,171,906 for the business year ending July 31, 1948, after deducting depreciation and interest on capital, but before provision for income tax. Regarding the capital debt of \$2,100,000 to the province of Manitoba, this has now been reduced to \$29,434.

The annual meeting of Manitoba Pool Elevators was held last week in Winnipeg. It was revealed that total active membership in the Pool associations was 32,126. Grain handlings in the 1947-48 crop year totalled 30,093,721 bushels.

Stirring Memories

To the Editor:

Your October issue came in a few days ago, and the front page pictures of "Farming Through the Ages" has amused and interested me very much, as they recall my boyhood and youthful days when I had a part in all these threshing processes, except the horse tread mill, although I remember having seen one in operation.

My clearest recollection of the tread mill was in looking for the old dog to operate the "dog churn". He was always missing the day the churning was to be done.

The "hail" and the tramping out of the grain on the barn floor were quite familiar scenes in the old historic County of Simcoe, Ont.

The "horse power" and separator marked an important advance. About my last experience with that was at Tom Walker's barn threshing when all hands except Mr. Richard Bolton, the Methodist church "class leader" and I were the only ones at the "bee" who remained sober following Lachie McDonald's supply of whiskey, which led to the horses on the horse power being driven to trot, and the resulting break down of the separator.

Mr. Bolton, by the way, was the grandfather of Mrs. Wm. L. O'Donnell of Elbow Park.

Your many interesting articles in the "Review" are quite instructive, and I trust your circulation is keeping up, and that you may continue to carry on the good work begun by the founder of the "Review." J. C. B.

Calgary, Alta.

Controlling Rat Nuisance

To the Editor:—

I understand rats are getting to be numerous on western farms, and the farmers have not learned how to deal with them. I think the same plan I used successfully for destroying mice when they got so numerous when I was using oat bundles for horse feed will do the trick and the cost is very small.

I used poisoned wheat and prepared it by dissolving the strychnine in hot water, adding salt to help them to eat it and used tomato cans to hold the wheat with one side of the top cut out and turned down so the can could be filled half full and laid on its side so the mice could hide in it while they ate what they wanted. I placed these cans in the bottom of mangers under the feed boxes where the horses or cows could not roll them about to spill the wheat and endanger them and where chickens could not get at them and I had no further trouble with mice.

Larger cans would be needed for rats to get inside but I am sure it would eliminate the rats as fast as they arrived on the farms and with very little expense to the farmer.

W. D. Trego.

Calgary, Alta.

A Plea For Highway Courtesy

To the Editor:

Re the FARM AND RANCH REVIEW I can say frankly, I have read it so long that it's become a household necessity.

Since I am a bachelor and this is Leap Year, I don't just like to tell you how many years in case you should publish my letter. However, I'll say I have read many papers, both in U.S.A. and Canada, but must admit the FARM AND RANCH REVIEW is the biggest — little — paper I have ever seen — and the most for the money.

To make sure I don't miss a copy in case of a slump, I have my subscription paid for till 1957.



Now, to be fair and honest, I might not agree on everything, but it comes out frank on everything, and writes in such language that everyone can understand. Now, for a subject to write on, I'd suggest some articles on motor transport regulation to try to stop some of the accidents and make it more comfortable for other people, especially the people who still have to drive the horse.

The general populace don't seem to know that a horse-drawn vehicle can flag a motor vehicle to stop if one needs to to avoid accidents.

Also they don't seem to know that a horse can get frightened and lunge out in front of the motor vehicle and maybe kill a horse and ram the pole through the radiator. My observation

is that if you give a motor vehicle the whole road (not all people) they seem to think that they have it coming to them, and have the right to ram the accelerator down to the floor and plaster mud and gravel all over the horse-drawn vehicle.

There are still a lot of people who can't afford cars; children who can go errands, and old stiffs like myself who are getting too old to drive cars, who need to drive horses, but it's getting more hazardous and uncomfortable for the horse-driver the more high grades we get, as so many motor vehicle drivers don't have any consideration for the fact that horses might lunge out in front of cars and especially trucks and trailer with cattle and loose chains flopping.

Emil Lorentson.

Bindloss, Alta.

Waste of Our Forests?

To the Editor:—

I hope you will excuse my writing to you and taking up your time, but although only a "townee", I enjoy reading your paper very much and pass it along when finished! My reason for writing to you at present was to ask if you, through your paper, could not put in a word or two against wholesale holocaust of young fir trees every Christmas time; this ruthless slaughter of millions of young trees from seven years or so up to 15 or more, cannot go on for ever! There are literally thousands that are never sold, and all this wicked waste for



"We tried a short cut in the fog last night."

one brief day! Surely it is not above the intellect of a people who can invent an atom bomb! to invent some sort of an artificial tree that can be used over and over again!

Are we going to have another example of a ruined country side, because of the greed of comparatively a few people?

I am enclosing two cuttings which may interest you as you have had articles on similar topics.

A. J. McKinnill.

Vancouver, B.C.

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Stability or Instability?

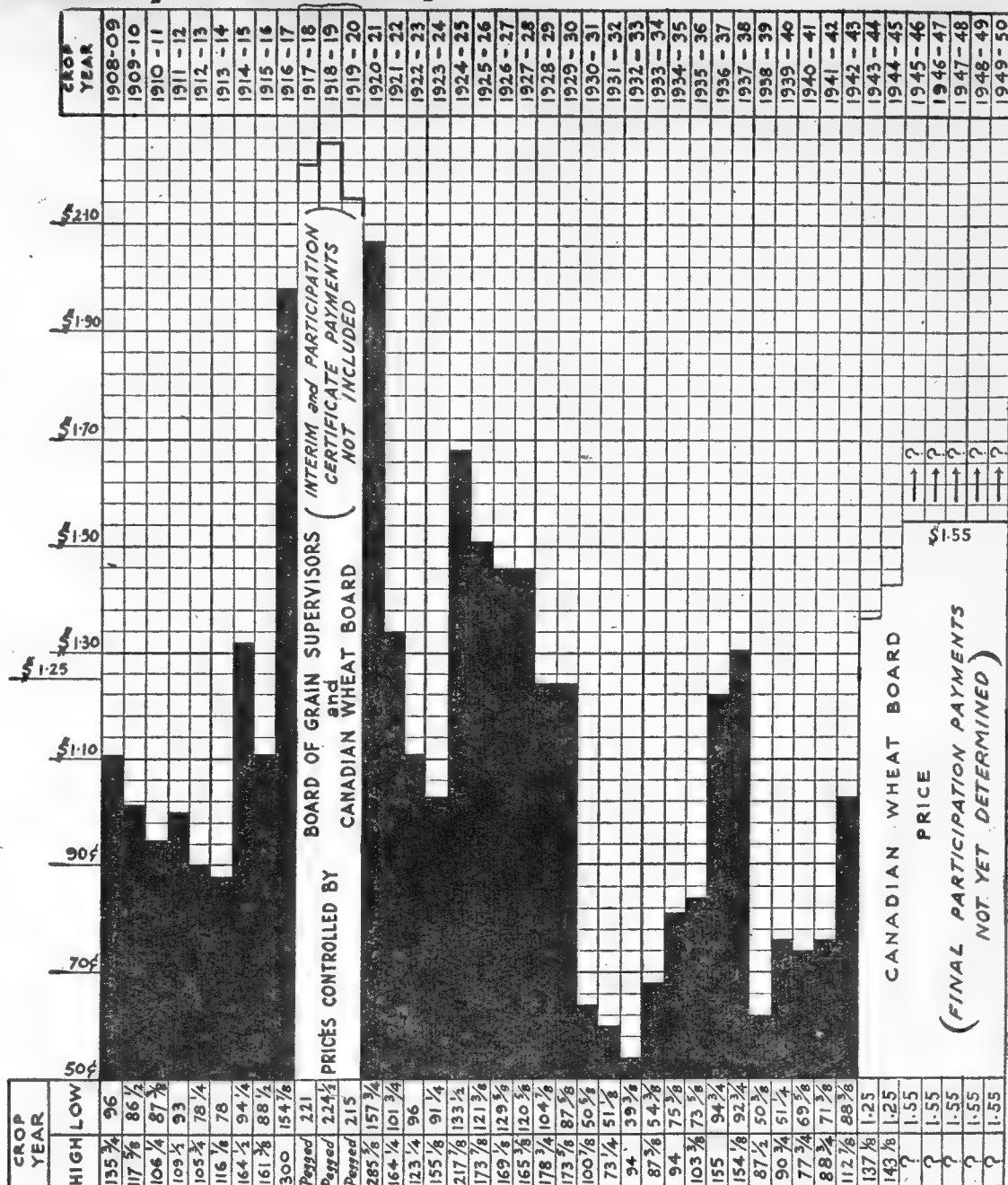


Chart by Manitoba Co-operator.

The above chart shows the high, low and average price for No. 1 Northern wheat, basis in store Fort William-Port Arthur, on the Winnipeg Grain Exchange, for each of the crop years indicated. The heavy black line indicates the average in each of the crop years. The white outline shows the price prevailing during part of World War I, and the immediate post-war period, as well as the prices prevailing in the past few years under the Canadian Wheat Board and the Canada-United Kingdom wheat contract, since trading in wheat on the Winnipeg Grain Exchange was suspended in September, 1943.

Sunflower Growing Expanding In Manitoba

ACREAGE planted to sunflowers in Manitoba hit an all-time high of 27,500 this year. In 1945 the oil seed crop accounted for only 8,500 acres.

The sunflower seeds are processed in a co-operative plant at Altona which was built in 1943. The bulk of this year's crop of 22,000,000 pounds, also a record, will go through this plant.

With this increase in acreage and development of hybrid seed, yields per acre also have climbed. In 1945, 300 pounds of sunflower seeds were taken off an acre of crop on the average. The yield was 565 pounds in 1946, and 800 pounds in 1947. The current yield is estimated at 800 pounds per seeded acre, to give an estimated total yield of 22,000,000 pounds in 1948.

Out of a total provincial yield of 20,000,000 pounds of seed last year, the plant processed 18,000,000 pounds, obtaining 4,500,000 pounds of oil and 5,520,000 pounds of protein rich oil cake meal.

Since 1946, the plant has doubled capacity with the addition of another complete crushing unit. At present, the big steam-operated crushers can handle 50,000 pounds of seed in 24

hours, and in five days can fill a rail-
way tank car with edible vegetable oil.

The Altona plant has a regular ele-
vator to which the seeds are delivered.
Feature of the elevator is the drying
equipment as seeds only can contain a
maximum of eight per cent of mois-
ture to be processed.

In wet years the moisture content
of sunflower seeds delivered at the
elevator has run as high as 25 per
cent.

Rate of extraction of oil is slightly
more than one-third, with oil cake
meal and shells as by-products. The
meal, sold for stock feed, contains
minimums of 46 per cent crude pro-
tein and five per cent crude fat.

Seed shells, used for fertilizer, are
difficult to store, as they are liable to
internal combustion. Machinery is
being installed this year to press the
shells into solid logs to be used as
fuel.

Tests on sample logs show that the
pressed seeds give up comparable heat
with certain types of coal. Natural
oil adhering to the shells not only aids
combustion but acts as a binder in the
log.

The plant maintains a laboratory

where constant tests determine oil
content in seeds, protein content,
fibre content of meal. A trained
agronomist checks the quality of all
the vegetable oil produced.

Quality standards for sunflower seed
oil are those of the American Oil
Chemists' society.

Refined, the edible oil of the sun-
flower seed is used for cooking, fry-
ing and is an ingredient of some
shortenings. The cash value of the
1946 seed crop, 13,000,000 pounds, was
\$600,000.



"Egg nogs are SO popular
here."

The Farm and Ranch HOUSEWIFE

FLIGHT...

A SHORT STORY
By L. A. CUNNINGHAM

IT was almost nine o'clock when Jennifer took the letter into her mother's room. She noticed the time because a shaft of moonlight picked out the clock on the dresser and because she rested the letter against the clock so that her mother would be sure to see it. Also because the train which would take her and Dicky Sayre away into the breathless unknown left at twenty-to-ten.

Strange how you walked on tiptoe even when there was nobody in the house but yourself. Her mother and father had motored over to Rossmount, eight miles away, the servants had gone to a dance. Still she walked on tiptoe to the telephone. She called Steve Caddis' taxi office. "Please send a taxi to Mr. Drew's home in time for me to get to the nine-forty train. Don't miss."

And the girl in Steve Caddis' office—Jennifer could see her there behind the dusty window in the light of dusty bulbs, said, "We'll be sure to, Miss Jennifer. At nine-fifteen."

Jennifer hung up and walked to the stair-head where she had left her bag. She had switched off the lights after she finished packing. The moonlight, streaming through the great old windows of Fenton House, furnished more light than she needed. She loved the moonlight. She wanted her last memory of Fenton House to be one of moonlight on the walls and thick carpets of the place that had belonged to her mother's family, the Fentons, for three generations and had come, when Elissa Fenton married, into Aaron Drew's fingers.

Jennifer started down. On the landing there was a stained-glass window and now, as she passed in front of it, a light brighter than the moonlight, and moving in a long shaft, showed through. A Car! She heard the crunch of tires. Not the taxi. Absurd; they couldn't have started out yet. Her straining ears caught the sound of steps. Someone tried the door; then a key was put in the lock, the door opened and almost in the same instant her mother's hand turned the switch by the door and filled the hall with light, and her mother looked up, as startled, it seemed, as she herself.

"Jennifer!"

Why, why, had she come back—she who would put a stop to this, who had given no word of help to Jennifer, who had sat, mute, while Aaron Drew forbade Jennifer to have anything to do with a good-for-nothing like Sayre.

"Child, you gave me an awful fright. When I saw you standing there I—"

"You didn't know—?"

"Of course I knew you were going to run away. I knew you were packing this afternoon."

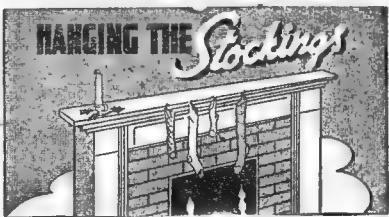
"Did you tell father?"

Elissa shook her head. "I wanted to talk to you myself."

"It won't do any good now."

"No?" Elissa smiled. She was lovely when she smiled. "We shall see. Please come down. We can switch off the lights and sit in the moonlight. It's nicer. I told Aaron I had some work to do and that I'd come back for him at eleven."

"Jennifer—" Now it was coming.



THIS custom originated with the Dutch. They used their wooden shoes instead of stockings.

When the Dutch came to New Amsterdam, this custom came with them—the wooden shoes being gradually replaced by stockings made for the occasion out of net-like materials. As nearly every home had a fireplace the usual place to hang the stockings was over the fireplace.

Jennifer's lips shut tightly. "You're doing a reckless thing."

"I love him."

"Yes, yes. Elissa's voice was patient. "I know you do. You feel as if you were going to heaven tonight. Do you know why you startled me so? It was like seeing a ghost."

"A ghost—of whom?"

"Of myself. You didn't know that I tried to make a fool of myself when I was your age."

Jennifer stared at the blur of her mother's face. Always placid, untouched by life, her mother had never once struck her as being the sort of girl who would run away.

"I was engaged to Aaron at the time—a family arrangement just like your own engagement to Henry Brigden. The man I planned to go away with was what your father would call a careless sort of boy—" She stopped. Jennifer tried in vain to see her eyes. She went on. "Not the sort for whom a girl should throw up an established lawyer like Aaron Drew. It was preposterous. The night I was to go with him, at this identical time, just as I reached that landing, the door opened

and my mother came in. She talked to me. I stayed. He went away. He died in France—a reckless death. And I—well, I married Aaron. I've been lucky. No one knew. I've lived it down."

"But you can't stop me," said Jennifer. "The taxi will be here in a few moments."

"You won't need it. You seriously mean, Jennifer, that you're going to give up Henry Brigden to run away with a man who has nothing, who makes a haphazard living? What'll you eat, child? Where will you sleep?"

"We'll make out."

"You can't imagine what it's like to be in want. He may leave you."

"I'll chance it. I love him and I'll face anything as long as I have him. Here's the taxi now. You won't stop me."

"Well—" Elissa got up resolutely. "I'm going to send the taxi away."

She went to the door and Jennifer, after a shocked instant, ran after her.

"Don't you dare. I—"

"Jennifer—" Two warm arms went about her neck. "I'm sending it away, my darling, so I can drive you myself. I came home for that and when I saw you on the landing I knew what I've always felt: that I died that night, twenty years ago. I don't want you to die. I want you to go—and live for yourself and for me."

□ □ □



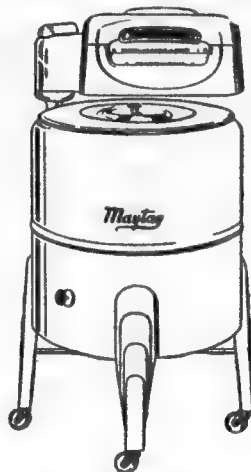
Near Bethlehem did shepherds keep
Their flocks of lambs and feeding
sheep;

Two whom God's angels did appear,
Which put the shepherds in great fear,
"Prepare and go," the angels said,
"To Bethlehem, be not afraid;
For there you'll find this happy morn,
A princely babe, sweet Jesus born."

Cream cheese and grated raw apples in equal quantities make a delicious sandwich spread. Equal quantities of applesauce and peanut butter also make a good spread.

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Christmas With The Pioneers Held Deep Religious Meaning

CHRISTMAS on the frontier, as new bands of pioneers pushed ever westward to carve an empire out of virgin plains and wildernesses, was in marked contrast to the present holiday.

There was more meaning then in the words of The Book concerning shepherds in a certain country watching their flocks by night. The solitudes, the closeness of the stars, the virginity of the new world and its humble people made one feel that time had stood still. Christmas in those days somehow seemed much closer to that first Christmas.

Those bleak plains could be the ones the Wise Men crossed, this the Night and yon sleeping village, Bethlehem. The faith of the trail breakers was that of the Wise Men.

On Christmas Eve the pioneer folks would gather in a crude little church or schoolhouse where children recited their pieces and sang songs about the birth of the Christ Child. Santa would hand out mosquito-bar sacks of candy, a golden orange or an apple to each one, and childhood rapture would make that meager offering truly a gift of gold and frankincense.

HOMEMADE sleds and sleighs skimmed over the snowy countryside with sleigh bells jingling accompaniment to the caroling of "Jingle Bells, Jingle Bells."

Except in the forest regions, few children enjoyed the sight of a Christmas tree. But always they hung up

their stockings, an old custom of their forefathers.

It was a lucky boy who awoke Christmas morning to find a new jack-knife in his stocking; a lucky girl who received a string of beads or a calico doll from Santa Claus. But that doll, made from spare strips of bright cloth, probably was more treasured than any modern doll that can say "Mama," go to sleep and perhaps require a diaper.

Children who received a slate pencil or a shell-box, a little affair covered with shells and containing a small mirror, were the special favorites of Santa.

For goodies, no Christmas was complete without its pans of popcorn and ropes of molasses taffy. In rare cases there might be a bag of candy.

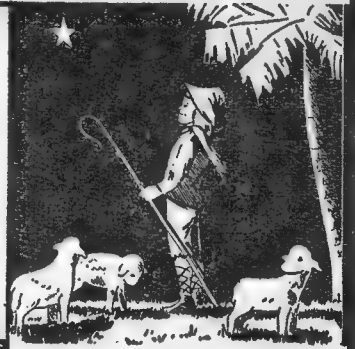
In the isolated cabins it wasn't so easy to gather with one's neighbors to celebrate. There were wolves in the timber and being caught in a sudden storm on the pioneer trails spelled death.

Christmas in some places meant a bobsled ride or perhaps a square dance, often followed by a turkey dinner costing 25 cents.

Gifts, if any, generally were in the form of utilitarian mittens, mufflers or home-made boots. For the women there might be a piece of intricate handiwork to which some enterprising friend had devoted her spare time for months.

A Christmas Prayer This Day of Joy

*As with gladness men of old
Did the guiding star behold;
As with joy they hailed the light,
Leading onward, beaming bright;
So, most gracious Lord, may we
Evermore be led to Thee.*



*As with joyous steps they sped
To that lowly manger bed,
There to bend the knee before
Him whom heaven and earth adore;
So may we with willing feet
Ever seek thy mercy seat.*



*As they offered gifts most rare
At that manger rude and bare,
So may we with holy joy,
Pure, and free from sin's alloy,
All our costliest treasures bring,
Christ, to Thee, our heavenly King.
Amen*



Christmas Quiz

1 A festival was celebrated at this time of the year long before it became the symbol of the Nativity.

TRUE FALSE

4 Alms giving at Christmas time originated in the belief that:—(a) It is better to give than to receive (b) One should follow Christ's sermons on giving to the poor (c) Christ sometimes came to the door disguised as a beggar at this season and it was feared that he might be turned away unrecognized.

TRUE FALSE

2 The first English Christmas celebration of which there is record was held by: (a) Queen Elizabeth (b) King Arthur (c) King Charles (d) Henry V

TRUE FALSE

5 The southern states use firecrackers at Christmas time. This is because those states were settled mostly by Spanish and French emigrants, who introduced the custom as originated in their countries.

TRUE FALSE

3 Santa Claus' descent through the chimney symbolized "sweeping the chimney clean," which, to the English, meant (a) Good luck (b) A happy holiday season (c) Favorable year ahead (d) Short winter.

1. (c) 2. (b) 3. (a) 4. (b) 5. True 6. (c)

6 The abbreviated word for Christmas is Xmas. This brief form was adopted because: (a) It was easy to remember (b) X is the initial letter of the Greek name for Christ (c) X represents the unknown (d) It's a slang expression originated by modern generations.

1. True. Pagan winter festival 2. (a) In S21 A. D. 3. (a) 4. (b) 5. True 6. (c)

Christmas Held Twice Yearly

IF children instead of their parents were allowed to choose the family homesite, the tiny fishing village of Rodanthe, N.C., would become a metropolis overnight. Here's a place they celebrate two Christmases every year.

Santa Claus, his reindeer scampering over the sands of North Carolina's outer banks, makes his first stop in Rodanthe during his annual world tour on the night of December 24. Hardly have the children recovered from their oversupply of candy and wild duck when Santa returns in time for "Old Christmas," which for hundreds of years Rodantheans have celebrated on January 5. This time, however, Santa is accompanied by a menacing ogre, known as "Old Buck," who takes care of the bad children while Santa administers to the good.

The historical background of "Old Christmas" is uncertain. It may be a throwback to the Georgian calendar or it may have started as a celebration of the Twelfth Night — when the wise men came to Bethlehem bearing gifts for the Christ child — that somehow got off schedule a day. Elsewhere the Twelfth Night is celebrated on January 6. But those celebrations are far different from Rodanthe's "Old Christmas," which only in recent years has been supplemented by the observance of December 25.

Quaint Swiss Custom Of Meeting Lover

FORECASTING is ritualized in Switzerland. Grandma goes to the cellar, selects the most perfect onion, halves

it, and peels 12 layers, one for each month. The next day these layers show what the weather will be during the coming year.

The daughter of the house goes about town at midnight, to drink from nine different fountains. Then she goes to church. She expects to meet her unknown lover on the church steps.

Christmas Rose Has Real Significance

LEGEND tells us that a young shepherd girl was weeping bitterly as she watched the Wise Men on their way to take gifts to the Christ Child.



An angel appeared, and after ascertaining why the young girl was crying, she waved her wand, and instantly the ground was carpeted with glittering white Christmas roses. The young girl quickly gathered these blooms. When she presented her gift, the Christ Child smiled, and as his fingers touched the white flowers the petals became tinged with pink

Inexpensive and Novel Christmas Gifts

By MARY STEVENS

"I HATE CHRISTMAS . . . it leaves me exhausted,!!" says one woman. "It's just a plain, commercialized RACKET!" says another, moaning over her disrupted budget. Well, Christmas CAN be those things if you let it get you down . . . and if you forget what Christmas really is and that gift-giving is not a "racket", but an appreciation for love and friendship and good fellowship.

And it's our own personal contention, too, that Christmas gift selection doesn't have to mean a mad scurrying through the shops at the last minute . . . for with a little well-directed energy and thought, gift selection can be a challenge to your ingenuity.

So you live on a farm . . . think of the things that are common to you but a treat to someone who doesn't live in your environment. You've a sizeable list of things there that would be far more appreciated than a department-store novelty. I know that most city women would love a dozen REALLY FRESH eggs for their Christmas morning breakfast . . . Funny gift? Not at all. A very thoughtful one. Or how about a pat of rich country butter done up in waxed paper and pretty wrappings . . . not much to you . . . but again a treat for someone who seldom tastes anything but creamery-made butter.

Are there evergreens on your land? If so, you've merely to make up a few wreaths and swags for more welcome gifts to those who haven't your advantage. You see, gifts don't have to have a price-tag on them . . . it's not the dollar sign attached, but the spirit in which the gift is sent that counts.

Well, so maybe you don't want to be a butter-and-egg man . . . or a wreath-maker either, for that matter. O.K., I'm not discouraged! You have preserves in your cupboard? Good. Select two or three jars, of different jams and jellies or even pickles. Try to match the jars as to size (a hard job if you use ANY available jar for jellies as I do), and then try a little fancy gift-wrapping. Two jars of jelly for breakfast treats are a REAL Christmas gift, believe me. Ditto jams . . . ditto pickles. And fancy-wrapped . . . they're what bring top prices in Eastern gift stores! Just to show you how popular such kitchen lore can be.

The gifts you can turn out in your own kitchen are endless when you consider fruit or gum-drop cakes . . . shortbreads . . . cookies . . . puddings and so on. In fact, such gifts are so high on the popularity poll we're beginning to believe that the way to EVERYONE'S heart is through his tummy!

And you can look to your friends' little private tastes and yearnings in the matter of selecting gifts, too. How about a variety of cheese attractively wrapped and packed in a small box . . . or a variety of home-made candies (part of the store you've made for your own Christmas entertaining).

Speaking of candy . . . here's a trick I've just heard about. Decorate a Christmas tree . . . with candy! A small tree, merely 12 inches high will do the trick. Select different pieces of candy, wrapping each individually in cellophane, tissue or foil and tie with gay ribbons . . . then decorate the tree with them. What kiddie wouldn't love that! Or can't you imagine the delight that would give an invalid friend? A whole tree full of gifts!

If you're one of those ingenious creatures who can DO things with her

hands . . . your field is limitless. Oddly-shaped bottles painted with gay peasant designs for hand lotions and colognes . . . wooden buckets painted with a basic shade and then given peasant flowers or designs for an ultra waste-basket . . . and so on down the list, using whatever materials you have available.

To the gal who sews a fine seam . . . your field, too, is very large and varied . . . and using only a minimum of time and material, too. My most appreciated gift last year consisted of two plastic bags . . . one about a foot square, one half as big . . . each with a draw string. Originally meant as towel and soap containers for traveling . . . so far I've used them for practically everything else! The large one has even had to make shift as a diaper bag. It now holds my nylons. Gunny sacking, run through with bright wools and fringed makes pretty table mats as does linen dish-towelling trimmed with rick-rack. Both the above materials, gaily decorated, will make smashing covers for indexed books to be used as personal telephone directories. And you can use them again to make sets for chair backs and arms.

Which all goes to show you, I hope, that you're a smart gal who is wise enough to stay within her budget for the Christmas celebrations . . . a smart gal who gives attractive gifts without putting herself into a frenzy to do it.

In conclusion, here's another thought. There may be some of you who are unable, for some reason or other, to give Christmas gifts. That's alright, too. Don't give any. Write a Christmas letter to your friends instead. Tell them how, at this season, you want to thank them for their friendship . . . their ability to be a truly fine man or woman . . . how much pleasure you are given for having them as a friend. Wish for them, as I do to you, a truly "Merry Christmas!"

□ □ □

Apple sauce icing is delicious and easily made: $\frac{1}{2}$ cup applesauce and $1\frac{1}{2}$ cups icing sugar will make enough icing for an 8" x 8" cake. This is specially good on spice cake.

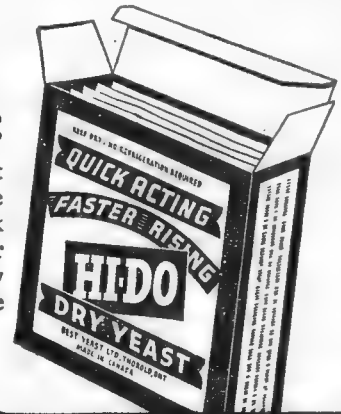
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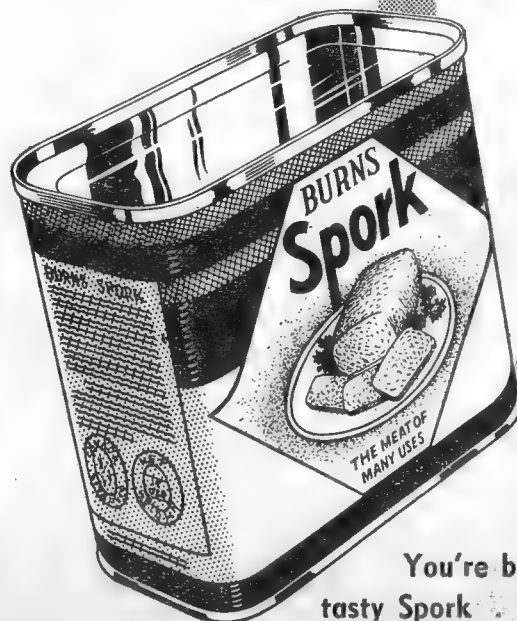
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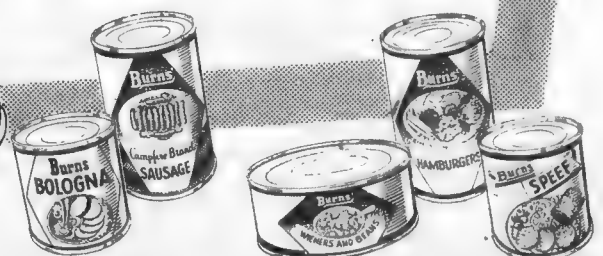
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For Bad Cough Mix This Splendid Recipe, at Home

Needs No Cooking! Big Saving!

You'll be pleasantly surprised when you make up this easily prepared mixture and try it for a distressing cough. It is no trouble to mix, and costs but a trifle, yet it can be depended upon to give quick relief.

Make a syrup by stirring 2 cups of granulated sugar and 1 cup of water for a few moments until dissolved. No cooking needed. (Or you can use corn syrup or liquid honey, instead of sugar syrup.) Get a 2½ ounce bottle of Pinex from any druggist, put it into a 16 ounce bottle and fill up with your syrup. The 16 ounces thus made gives you four times as much cough medicine for your money, and is a very effective relief for coughs. Keeps perfectly and tastes fine.

This splendid mixture has a three-fold action. It soothes the irritated membranes, loosens the phlegm and helps to clear the air passages. Thus it makes breathing easy, and lets you get restful sleep.

Pinex is a special compound of proven ingredients, in concentrated form, well known as a soothing agent for winter coughs. Money refunded if it does not please you in every way.

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Christmas Decorations Of Small Cost

By EFFIE BUTLER

FOR the second time in a short span of years the approach of Christmas finds us without the box of Christmas trimmings every family seems to possess.

Last spring I dragged our collection, a sodden mass of wet tinsel, limp streamers, and faded baubles from a basement storeroom after the floods of the Red River, which surrounded our home, had subsided. As I disposed of that dripping multi-stained assortment I was reminded of the first year we spent in a northern outpost. Christmas was but a few weeks off when we discovered our box of Christmas trimmings had been left behind. Time and transportation did not permit sending out for a supply.

"Oh, cheer up! Let's make our own baubles, and let's make them a bit different this year," consoled the cheeriest member of our family.

So, if your budget won't stretch past the food for the holiday to include new or additional Christmas trimmings you can work out glamorous effects with a trifle of expenditure . . . just as we did in that far off northern post and hope to do this year.

Of course, you will want wreaths, but why not make yours a bit unconventional? If you live within reach of a coniferous woods a trip to gather a supply of cones of all sizes along with spruce branches and pine sprays will make a pleasant family outing the week-end before Christmas.

You are lucky, indeed, if you have gathered some sprigs of crimson rose hips or know where they still hang on the bushes. Now, with some strong wire for foundations, a pair of shears, a pair of pliers, and some fine wire you can have a grand time designing the gayest wreaths. Work out a background with the greenery and then let your imagination run riot with the berries. By this time you will see how you can use fruit and even vivid colored vegetables as decorations.

Here is one idea for decorating the mantelpiece or the buffet top . . . if you

can spare the use of it for the holiday. The arrangements consist of five or seven short colored candles, and even the fat white "night" ones are effective, set amid a bank of evergreen sprays. Select a smooth light board not quite as long as the mantel and drive a row of long nails in the board at regular intervals apart. Impale your candles on these nails and arrange the greenery around their base . . . but not too close for safety sake when the candles are lit on Christmas night . . . make the verdant boughs dip down a little around each candle.

If you dwell far from an evergreen grove you may still have a sparkling Christmas tree. Select a tiny thickly-branched sapling and give it a coat of thin paste, using an old paint brush to smear it on, and while the paste is still moist sprinkle on confetti made from tinsel paper. If you desire a truly unusual tree shake chalk-dust of all the brilliant shades over the branches just before they dry and you will be delighted with the unique



effect if you have been very generous with your confetti.

To make a festive showing of your Christmas cards, they might be hung on the wall even if they temporarily displace a picture or mirror. If there are not too many in the family, each member might have his or her own tree.

Cut from playboard or stiff cardboard a piece in the shape of a Christmas tree, wide at the base and tapering gradually to a point. Add a piece at the base to represent a box or tub in which the tree sits. Cover it over with green crepe paper. As your Christmas cards arrive fasten them to this tree with thumb tacks and you will be surprised how much more joy you will receive from each one than when you stacked them on a tray and looked at them when time permitted.

If the traditional Christmas tree isn't possible in your home because of space or other reasons, hang handsome evergreen boughs around the room, each with its ornaments and prettily wrapped small gift packages and topped off with a big red crepe paper bow.

Cones can be made festive looking with gold, bronze and silver paint. A less expensive way is to touch up the tips of the cones with paint . . . red, green, or white. Arrange these cones in dangling clusters tied with red streamers and a bow of crepe paper.

When you decorate don't forget the outside of your house. A garland festooned in the doorway, or a wreath in the centre of the door is a welcoming sign to all guests. Be sure you place a burning candle or a lighted lamp in your window on Christmas eve.

In olden days its purpose was to light the way to warmth and shelter for any poor wanderer, just as the star lighted the way to the manger on the first Christmas eve.

□ □ □

Country Diary

WELL, the year is running out, but not running down, with December on the wing. It is a strange fact that time passes more swiftly in December than at the brand-new beginning of the year. January is flat, uninteresting, the aftermath of anticipatory, exciting joys, and time drags a little.

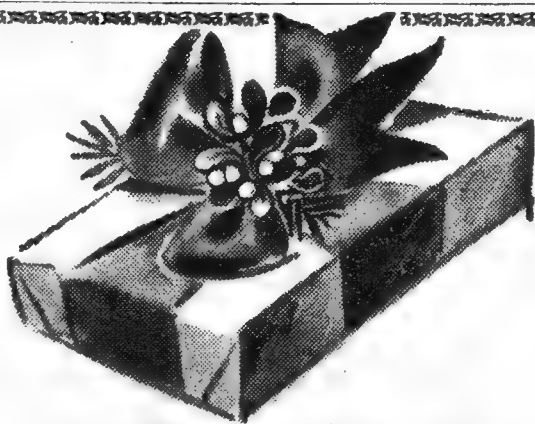
The promise of winter is on us — the window-panes white-etched in flowery patterns; icy fringes above the storm doors with their frosted hinges; the branches of the trees converted into silver filigree; the north field a space of crystal white; the whole outdoors a panorama of white — and of such is the passing of time made in our homeland. Any morning now we may expect to don sheepskin and mitts and dig out a path to the barn before starting chores. One pleasant thought while doing so is the advantage we have over city dwellers in that burst and gushing water pipes are non-existent.

You can't really appreciate Spring in the country unless you have experienced what goes before. You have to spend a winter on the farm, the further away from city streets the better. Indeed, we might look on winter as only a stage setting for the production of the miracle of Spring. Many people, as the geese and chickens, flee from it, and the small fry of the fields, gophers, badgers, squirrels, hide away from it. But to experience to the full the glory of Spring, let us have winter.

A great many people in the world have never seen snow. It is a profound mistake to suppose that familiarity with snow is universal, for geographical statistics say that snow never falls on seventy per cent of the earth's surface. It is a novel and astonishing thought to us that the majority of the world's population only knows snow by hearsay. And it just happens that most of the world's literature is produced in that part of the world where there are snowstorms. Thousands of youngsters to whom snow is only a name enjoy reciting "The First Snowstorm" and "The snow which began in the gloaming."

I hope we can all look forward to share the happiness of our Christmas feast with the birds. It was the custom of country people of olden times to bind a large oat or wheat sheaf to the top of a post, to insure a plentiful, joyful Christmas for their feathered friends, a kindly thoughtfulness we could all emulate. Time was when we hung the turkey carcass on the limb of a tree as a special tid-bit, but this has become an extravagance in these days of economy, and the turkey frame is used in the makings of a satisfying soup, and a chunk of fat takes its place on the tree.

On December nights when frost has cleared the air, a man can look up from the wide prairie space far into the universe. It is a thrilling sight, always there, but obscured by the bright curtain of day. Night by night the pageant of glittering gems stands revealed, the constellations, in orderly, ordered sequence, turning just as they were named and catalogued three thousand years ago. To me, the insignificant earth watcher, they appear as a galaxy of jewels far beyond the dreams of an Aladdin.



Do All Your Christmas Shopping Through the Bay's MAIL ORDER DEPARTMENT

Sit back and enjoy Christmas. Let us do the work. We'll shop carefully for all your gifts. Wrap them gayly for Christmas. Send them to any point in Alberta. Shop through the Bay's Mail Order.

Hudson's Bay Company

Christmas Recipes



A MODERATE oven, a shallow, uncovered pan, and a rack are the only properties needed for success in roasting young turkey the modern way.

Home economists advise roasting young turkey in an uncovered pan, because then any steam that is formed in cooking is not closed in the roaster to draw the juices. There needs to be a rack in the pan to keep the bird from sticking and to allow the hot air to circulate under the turkey and cook it evenly.

Any pan is suitable for roasting if it is shallow and if it is big enough for the turkey. A shallow pan works best because in it the air circulates under the bird more rapidly than in a deep pan. To keep the meat juicy, do not add water in cooking to form extra



steam. Keep the oven temperature moderate all through the roasting so the turkey will be tender and evenly cooked when done.

Roast medium-sized turkeys — 10 to 13 pounders — at about 300° F. for from 3 to 4 hours. The 14 to 17 pounders need a slower oven, about 250° F., for from 4½ to 5½ hours. Very large turkeys, over 18 pounds, need 6 to 8 hours at from 250° to 275° F. The 6 to 9 pounders may be cooked in about 2½ to 3 hours at about 325° F.

To further make sure of even cooking, turn the turkey from side to side and have its breast up about one-third of the time. At each turning, baste with fat. Small and medium-sized turkeys need to be turned about every half to three-quarters of an hour, larger turkeys less frequently.

GIBLET GRAVY

Simmer the giblets (liver, gizzard and heart) and the neck in a quart of water for about an hour, or until tender. Drain and chop the meat finely. Leave about 1 cup fat in pan after removing roasted chicken or turkey. Stir 2/3 cup flour. Gradually add cool broth and enough cold water to make a smooth thin gravy. Cook for 5 minutes, stirring constantly. Add chopped giblets. Season to taste with salt and pepper.

TURKEY DRESSING

- 2 loaves (8 to 10 cups) day-old bread
- 2 medium-sized onions
- 1½ tbsps. sage
- ½ tsp. poultry seasoning
- 2 tbsps. minced parsley
- 2 tps. salt
- ½ tsp. pepper
- ½ cup melted shortening
- Cold water

Combine bread, broken into crumbs, onions and seasonings. Add shortening and sufficient liquid to moisten. Toss together lightly. Allow 1 cup of stuffing for each pound of turkey. This is enough dressing to stuff a ten- to twelve-pound turkey.

CHRISTMAS DINNER MENU

Appetizer

(tomato juice, cranberry cocktail, fruit cup, broiled grapefruit, or grape-ale)

Roast Turkey Chicken or goose Bread, Mushroom, Celery, or Giblet Dressing

Mashed Potatoes Brown Gravy Harvard Beets or Mashed Turnip and Carrots Cauliflower or Peas

Cranberry Sauce or Current Jelly

Celery Curls Lettuce Cherry Olives

Plum Pudding with Sauce or Hot Mince Tarts or

Frozen Strawberries on Ice Cream Nuts Coffee

SWEET POTATOES AND CRANBERRIES

- 6 large sweet potatoes
- 1 cup cranberry sauce
- 3 tablespoons fat
- ¼ cup brown sugar
- 1 teaspoon salt
- ½ cup finely chopped nuts

Boil sweet potatoes, peel and cut in half lengthwise. Place 6 halves in greased baking dish, scoop out a little of the centre (but save for future use) and fill with cranberry sauce. Top with remaining halves. Melt fat, add sugar, salt and nuts and spread over potatoes. Bake in moderate oven, 350°, till light browned.

PLUM PUDDING

- 1 cup chopped suet
 - 1 cup chopped apple
 - 1 cup seedless raisins
 - 1 cup currants
 - ½ cup chopped citron
 - ½ cup light molasses
 - ½ cup cold water
 - 1½ cups flour
 - ½ teaspoon salt
 - 1 teaspoon soda
 - 1 teaspoon cinnamon
 - ½ teaspoon cloves
- Combine suet, fruits, molasses and water. Add sifted dry ingredients and mix thoroughly. Fill greased molds 2/3 full; cover and steam three hours. Serve hot with Spiced Foamy Sauce. Serves 8.

SPICED FOAMY SAUCE

Sprinkle 1 tbsp. gelatin on 2 tbsp. cold water. Scald 1 cup top milk; add gelatin, dissolve. Chill. Beat until fluffy. Add ½ cup sugar, ½ tsp. cinnamon, ½ tsp. nutmeg and ½ tsp. cloves. Chill. Serves 6 to 8.

CARROT PUDDING

- 2 cups grated carrots
 - ½ cup chopped suet
 - ½ cup sugar
 - 1 tsp. salt
 - Rind and juice of 1 lemon
 - ½ tsp. cinnamon
 - ½ tsp. cloves
 - 2 tps. baking powder
 - ½ cup nuts
 - 1 cup crushed Graham cracker crumbs
 - 1 cup seedless raisins
- Combine all ingredients. Turn into a well-greased mould. Cover with wax-paper or cheesecloth and steam for 2 - 2½ hours. Serve with Lemon Marshmallow Sauce.

LEMON MARSHMALLOW SAUCE

- 1 egg
 - 2 tbsps. flour
 - ½ cup sugar
 - 1½ cups hot water
 - Rind of 1 lemon
 - Juice of 1 lemon
 - 2 tbsps. butter
 - 8 - 10 marshmallows
- Beat egg, add sugar and flour. Add

hot water gradually. Cook on "Low" until thick. Add lemon rind, juice and butter. Remove from heat and add marshmallows, which have been quartered. Stir until dissolved. Serve on pudding or gingerbread.

HOLIDAY SALAD (individual)

- 2 crisp lettuce leaves
- 1 pineapple ring
- 1 ripe olive
- 2 tbsps. white cream cheese
- Granulated sugar—colored red

Arrange lettuce leave on salad plate. Place pineapple ring in centre. Roll cream cheese into balls and roll in red granulated sugar. Arrange on pineapple ring and garnish with mayonnaise, ripe olive and a sprig of parsley.

CRANBERRY PUNCH

- 1 qt. cranberries
- 1 cup sugar
- 3 tbsps. lemon juice
- 6 cups water
- 1 cup orange juice
- 1 qt. ginger ale

Cook cranberries in the water, rub through a sieve. Add the sugar and chill. Just before serving add the orange and lemon juice and ginger ale and pour over ice cubes.

CHRISTMAS SHORTBREAD LOGS

- ¾ cup shortening
- 4 tbsps. sugar
- 1 tsp. vanilla
- 2 cups flour
- 1 tbsp. water
- 1 cup nuts chopped (optional)

Cream shortening, sugar. Add vanilla. Add flour gradually beating after each addition. Shape by rolling spoonful in hands into logs or fingers. Bake 350° F. for 15 - 20 minutes. Add cocoa to half mixture for chocolate logs. May be rolled lightly while hot in sugar. May be varied by adding finely chopped cherries or peel.

LEMON FLUFF

- 2 tablespoons cornstarch
- 3 tablespoons flour
- ½ cup sugar
- ½ teaspoon salt
- ½ cup cold milk
- 1½ cups hot milk
- 2 egg yolks
- 2 lemons, grated rind and juice
- 2 egg whites

Mix cornstarch, flour, sugar and salt and blend with the cold milk. Gradually stir into the hot milk and cook in double boiler, stirring constantly, until thickened then continue to cook, stirring occasionally, for 15 minutes. Beat egg yolks, add grated lemon rind and a little of the hot mixture. Stir into remaining mixture in double boiler and cook, for 3 minutes. Remove from heat and add lemon juice. Fold in the stiffly-beaten egg whites. Turn into sherbet glasses or a lightly-greased mould and chill before serving. Yield: Six servings.

CRUNCHY PEANUT DROP COOKIES

- 1 cup shortening
- 2 cups brown sugar
- 2 eggs
- 1 tsp. vanilla
- 2 cups sifted flour
- ½ tsp. soda
- 1 tsp. baking powder
- 1 cup cornflakes
- 2 cups quick-cooking rolled oats
- 1½ cups salted peanuts—with skins left on

Cream shortening with sugar and vanilla. Add eggs well-beaten and beat until creamy. Sift together the dry ingredients and add to first mixture. Add cornflakes, rolled oats and peanuts. Blend well. Drop by teaspoon on a greased cookie sheet and bake in a hot oven — 400° F. for 12 - 15 minutes.

DELICIOUS FUDGE (an old Pennsylvania Dutch recipe)

- 1 cup brown sugar
- 1 cup granulated sugar
- 2/3 cup condensed milk
- 2 squares unsweetened chocolate
- 2 tbsps. butter
- 2 tbsps. corn syrup
- 1 tsp. vanilla
- 1 cup nutmeats, chopped

Cut chocolate in small pieces and cook with brown and white sugar, condensed milk and corn syrup. Stir until dissolved. Then cook, stirring frequently, until the fudge forms a soft ball in cold water. Remove from heat, add butter, vanilla and nuts. Let stand until cool. Beat until glossy appearance is lost. Pour into a greased pan and cool. Cut in squares.

MINTED CARROTS AND CELERY

- 3 cups carrots, sliced
 - 2 cups celery, cut in 1-inch pieces
 - 2 tablespoons butter, melted
 - Salt and pepper to taste
 - 2 tablespoons mint, chopped finely
- Wash, scrape and slice carrots. Wash celery and cut into inch lengths. Measure, cook carrots and celery together in boiling, salted water. Drain and reserve the water in which they were cooked, for soup stock or sauces. Season vegetables with salt and pepper. Arrange in a hot, greased dish and pour over them 2 tablespoons of melted butter. Just before serving, sprinkle with two tablespoons of mint, chopped finely or sprinkle 2 teaspoons dried mint between layers. Yield: Six servings.

APPLESAUCE PUDDING

- 3 cups sweetened applesauce
- 2 egg yolks
- 1/3 teaspoon grated lemon rind
- ¼ teaspoon vanilla
- 4 egg whites
- ½ teaspoon salt
- 3 tablespoons brown sugar
- ½ teaspoon vanilla

Place applesauce in a bowl. Beat egg yolks, add lemon rind and the ¼ teaspoon vanilla. Add to applesauce. Place mixture in a baking dish. Set dish in a pan of hot water and oven-poach in a very slow oven 300° F., for 15 minutes. Make a meringue of the egg whites, salt, sugar and the half teaspoon of vanilla. Heap on the apple mixture, return to oven and bake ten minutes longer. Serve hot or very cold with cream. Yield: Six servings.

• • •
½ cup of grated raw apple added to 1 cup mayonnaise or cooked salad dressing makes a new type of dressing for vegetables or fruit salads.

GAIIETY and happiness is the very essence of the Christmas Season, but back of all the festivities and customs there is the deeper and spiritual meaning, which we derive such real benefit — the gladstone-spirit diffusing life, health and cheer, which takes hold upon the whole world at this time.

Christmas means brotherhood. It speaks of goodwill, of thoughtfulness for others and sacrificial actions. Sometimes it seems that the practice of gift-giving may often go to extremes and the principle be lost in the habit of spending, but after all it is but an expression of the thought of gifts for others that this brotherhood is built upon in an atmosphere of goodwill, and its components are deeds of kindness. Here we have the story that never grows old. Where in all the world could we turn for such high and holy standards of action?

Christmas Spirit

Pursuing this thought further, Christmas should mean something good for the unfortunate and needy, for the lonely and "shut-ins", for the aged and infirm, for mothers and fathers, who carry a heavy load of care and responsibility, for youth, childhood and infancy.

There is not a member of the family circle, but will derive untold blessings from contact with the Christmas

Making Your Own Gift Wrappings And Presents Is a Magic Ritual

By ANN BARRETT

Spirit . . . for there is nothing homier than the family grouped together around the home-fireside with crackling of the Yule-Log burning merrily on the hearth. White outside, are the big, soft, white snowflakes drifting slowly across the window-panes and tracing exquisite tracery on the branches of the trees, to make our dreams of a "White Christmas" a reality. Our gratitude for all these many blessings can best be shown by passing on the old story of love, joy and hope to others.

Gay Christmas Tree

In practically every community in Canada, Christmas just isn't Christmas without the gaily trimmed Christmas Tree, decked with loving gifts and rites of kindness . . . yes, joy is unbounded at this time when both children and grown-ups alike unwrap lovely and mysterious gay packages.

There are many stories attributed to the origin of the Christmas tree,

and one legend goes back to the manger at Bethlehem, where trees from all over the world had come to do honor to the new born babe. Very little attention was paid to a diminutive fir-tree by the more majestic trees . . . but suddenly it was illuminated with all the brilliance of the heavenly light, as star upon star fell upon the little fir until its sparkling splendor highlighted above all the others. It is a pretty story, and so we have our fir-tree at Christmas, gleaming with brilliant lights.

Gift-Wrappings

Christmas-wrappings to wrap up our gifts should be bright and gay looking as they are handed down from the tree . . . half the joy of Christmas gifts lies in the thrill of opening and untying packages of white, silver, gold, green or red with fantastic loops and bows. There isn't any limit to the many and clever effects in gift-wrapping if you have a supply of wrapping paper, ribbon, tie-wire, cellophane, boxes and pair of scissors to be used in the process.

In covering or wrapping up a box, be sure to have the wrapping-paper the right size to overlap one-and-a-half inches underneath and to extend a little less than the depth of the box at each end. Make the overlap come on the bottom or on a place where the ribbon will cover it. On the ends, make neat folds, creasing first in from the ends and then folding up from the bottom. Fasten ends with Christmas seals or plastic tape. To make ribbon ties, make pairs of bands, cross them exactly in the centre or to one side, slant them or wrap in a diagonal manner, first over one corner then under the next and repeat around the box, tying in centre of side where the wrapping began. Tiny sleigh-bells tied to the ends of wrapping cord or ribbon makes sweet Christmas music to announce a gift taken off the tree.

Clever Tricks

To make a jaunty bow, form the first loop and hold between the thumb and forefinger. Make another loop in the opposite direction, hold firmly and repeat, first in one direction, then in the other. The loops may be all the same length, or varied. Fasten tightly with tie-wire where fingers are holding the loops.

A clever way to wrap a gift of silk stockings is to cut out a sock from red paper or red cotton, paste or sew up the back, place the gift within and add a loop of cord at the top to hang it up by, just like a Christmas stocking.

You have no idea the limitless number of pretty gifts that you can make at very little cost if you are clever with the needle. There is always the useful sewing-bag that can be made out of scraps of silk and embroidered with colored floss, an evening-bag produced from bits of velvet and brocade, or even a useful safety-pin holder from an end of bright ribbon. Felt or broadcloth applied to homespun, size 22 inches by 14 inches will make an attractive porch-bag, while unbleached cotton may be decorated with pale blue rabbits, to make a quilt for baby's crib.

Toys Foster Spirit


Every child's heart thrills at the thought of Christmas, and it takes thought and planning to choose the most suitable gift for their various

needs. There are toys designed to promote greater use of imagination among children in the five to eight-year-old group, also to foster creative play and types to teach the youngsters to think for themselves.

The simplest toys are the best for the very young, and moderation in the cost is an evidence of the parent's wisdom. The rag-doll, the gingham-dog and the calico-coat are favorites, as well as balls, balloons, crayons and building blocks. For the school-age girls, dolls, sewing-kits, doll's houses and books ought to contribute to their happiness. Boys generally welcome airplanes, automobiles, roller skates and carpenter's sets. Toys such as tricycles, small scooters and junior bikes are helpful for the guidance of all such young exuberance.

A big surprise for the youngsters that anyone can make is a toy chest that will cost next to nothing to construct. First, find a roomy box and attach a lid with hinges. Safeguard small hands by covering any small heads with putty, and sandpaper any roughness on the box. Enamel gaily in a sky-blue background and glue on a border of cut-out paper elephants in bright orange color or black pussycats, then finish with an all-over coat of shellac.

With a typical Canadian spirit we can make many of the Christmas toys this year, for instance, don't forget that spools and wooden cigar boxes can be made into useful toys, too. The boxes make first-rate trains and the spools can be used as wheels for them. Spools can even be strung together for beads, or lined up together for imitation trains to be drawn along the floor by the baby.



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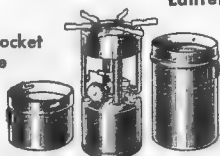
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The Dishpan Philosopher



THERE'S one thing we may count on here — a nice white Christmas every year. I guess for real old Christmas charm it's hard to beat a bushland farm. Right now through every window-pane, along the hill and down the lane, a million jewels gleam and glow where sun is shining on the snow. The stately evergreens stand high against the blueness of the sky, and through the fields I pause to seek the silver of the ice-bound creek. And well I know above my head a friendly plume of smoke is spread. Here is a scene which all regard as lovely on a Christmas card.

Perhaps all beauty has its place the happy festival to grace. But Christmas will not pass you by if it should be your lot must lie where beauty plays but little part — the home of Christmas is the heart.

Aunt Sal Suggests

The Christmas bells ring out again,
At this glad time of year;
We also send some handy hints . . .
We hope they'll bring you cheer.

EVERY person has his own ideas as to what things are truly signs of Christmas. To most it is the first snowfall . . . for especially to us Canadians, a "white" Christmas is a right Christmas. Who among us hasn't been guilty of exclaiming to all we meet the day of the first snow of the season . . . "Merry Christmas" . . .

In Medicine Hat, where this column originated this month, the first snowfall fluttered down upon us on November 2nd. It wasn't much of a snow . . . as storms go . . . but it was just enough to make us realize that the glorious Indian summer couldn't be expected to go on and on forever.

The only persons who looked to be really enjoying the snow were those mischievous youngsters who managed to scrape up enough to make snowballs and the women who had new fur coats and welcomed the chance to wear them. As I possessed neither the yen to make snowballs nor a new furry wrap, I just scuffed along the sloppy sidewalk and thought despairingly how often I'd complained about the heat away back last summer.

"If winter comes" . . . That was the sign I saw glaring at me from a movie marquee . . . and suddenly it seemed to fit in with my mood, so in I went. Have you seen it? You know it's a dramatization of that book that came out some years back. It was one of the first of the new books to come out bearing a weird title that no one understood. That is no one did, until

they bought the book and discovered it was a fragment from the unfamiliar quotation "If winter comes . . . can spring be far behind?"

"A person is really old," they say when they stop pretending. In that case many of us are doomed to a long childhood. I think you may be interested to hear of the game of pretence I've been playing this past month. On the surface it was supposed to be a real grown-up job . . . as a household adviser in a large store. But, surely there's nothing wrong with getting all the fun one can out of any job! That's what I decided to do at any rate . . . as I went about the store examining the stock that I later described to the prospective customers, I indulged in my game of "pretending" I had a million dollars to spend and could get anything I wanted . . . But it was with the guilty air of a shoplifter caught with the goods that I meekly replaced everything at the end of the day. My commonsense told me, that it was a real job in a real business world . . . so I'd better wake up to the fact.

Why does my shortbread bake hard on the bottom and go crumbly on top? I was asked recently. Not having come from the land of the heather where shortbread first sprang into being (I think), I felt incompetent to explain, so I began consulting every woman of my acquaintance who spoke with a Scottish "burr".

Here are the points to watch when making shortbread to a Scotchman's taste: The ingredients are few, but do measure them carefully. Choose confectionery rather than white or brown sugar for best results. Work the flour in very thoroughly and bake in a slow oven. The good old Scotch recipe given me was quoted in pounds. Just for my own enlightenment I looked up the food equivalents of a pound and here you have them:

Food Equivalents

One pound of white flour equals 4 cups.

One pound of butter equals 2 cups.

One pound of powdered (or confectionery) sugar equals 2½ cups.

Scottish Shortbread

1 lb. butter (2 cups)

1 lb. confectionery sugar (2½ cups)

½ tsp. salt

1 lb. flour (4 cups)

Refer above for points to watch in making them.

Besides the dearly beloved (and the more dearly priced) turkey . . . we count plum pudding and fruit cake about the most typically Christmas foods. But there are a number that count up high in the "also ran" list. Memories of our childhood determine our favorites as we get older. For instance in our family my husband casts his vote for a round fruit cake heavily frosted . . . and he thinks it should be hacked off in generous slabs, like gingerbread. On the other side of the fence I favor a square cake minus icing, and it must be carved paper thin! Each for his own taste. There's only one way to settle this disagreement and that is to bake two cakes . . . one round and one square.

I wish all the disagreements of the world could be as easily settled. *Wishing* for peace on earth won't bring it to pass . . . but *thinking* peace and demonstrating peace in all our daily contacts will surely push the day of true peace just a little closer.

"PEACE ON EARTH . . . GOOD WILL TOWARDS MEN."

Merry Christmas and every good wish!

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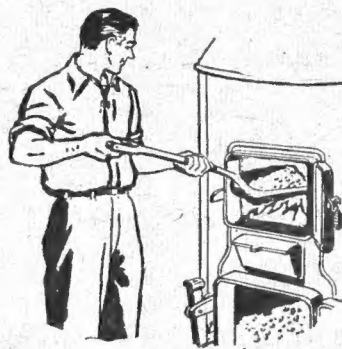
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9 Firing Hints That Help You Save Coal

By Courtesy of the "Popular Mechanics Magazine"

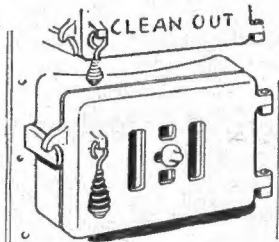
COAL, when properly fired, provides greater heat value per dollar than any other fuel. But it is estimated that 10 per cent of the coal used to heat the average home is wasted through improper hand-firing and furnace regulation. While there are many factors to consider in arriving at the correct method in each case, these 9 hints on how not to fire will reduce waste, minimize smoke and lessen furnace attention.



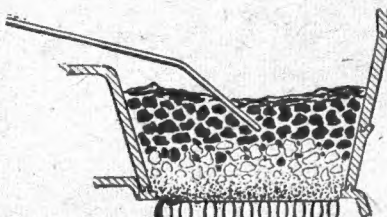
DON'T BANK THE FIRE BED with ashes. This only tends to produce clinkers which cause inefficient burning and waste of coal. It is better to keep a deep fuel bed and to regulate the fire with the controls.



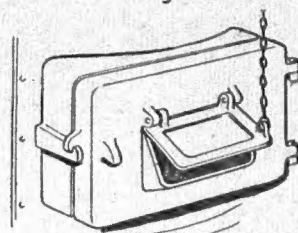
DON'T LET ASHES ACCUMULATE in the ashpit. Make it a practice to remove them each morning after shaking down the fire. A clean ashpit assures proper combustion and prolongs the life of the furnace grates.



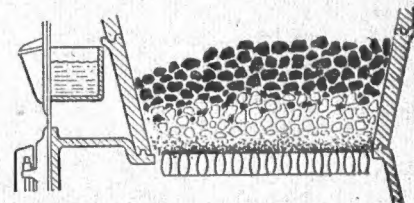
DON'T NEGLECT TO CLOSE FIRE DOOR after firing. Leaving it open cools fire and wastes fuel. Keep the slide open in the fire door. Air through opening aids combustion in most heating plants.



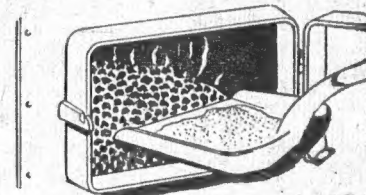
DON'T RAM THE POKER INTO THE GRATES. Ashes mixed with fire cause clinkers. Bend poker as indicated and use sparingly to break up top crust.



DON'T REGULATE FIRE BY ASHPIT DOOR itself; use the draft damper in front. Operate this and check damper simultaneously. When you want more heat, open draft damper and close the check.



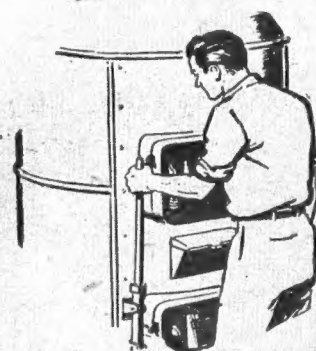
DON'T SHAKE LIVE COALS INTO ASHPIT. Keeping grates covered with thin ash layer in the cold weather helps hold fire, keeps it burning evenly.



DON'T LET SOOT ACCUMULATE. Make it a habit to throw rock salt on a hot fire periodically to keep the furnace and the smoke free of soot.



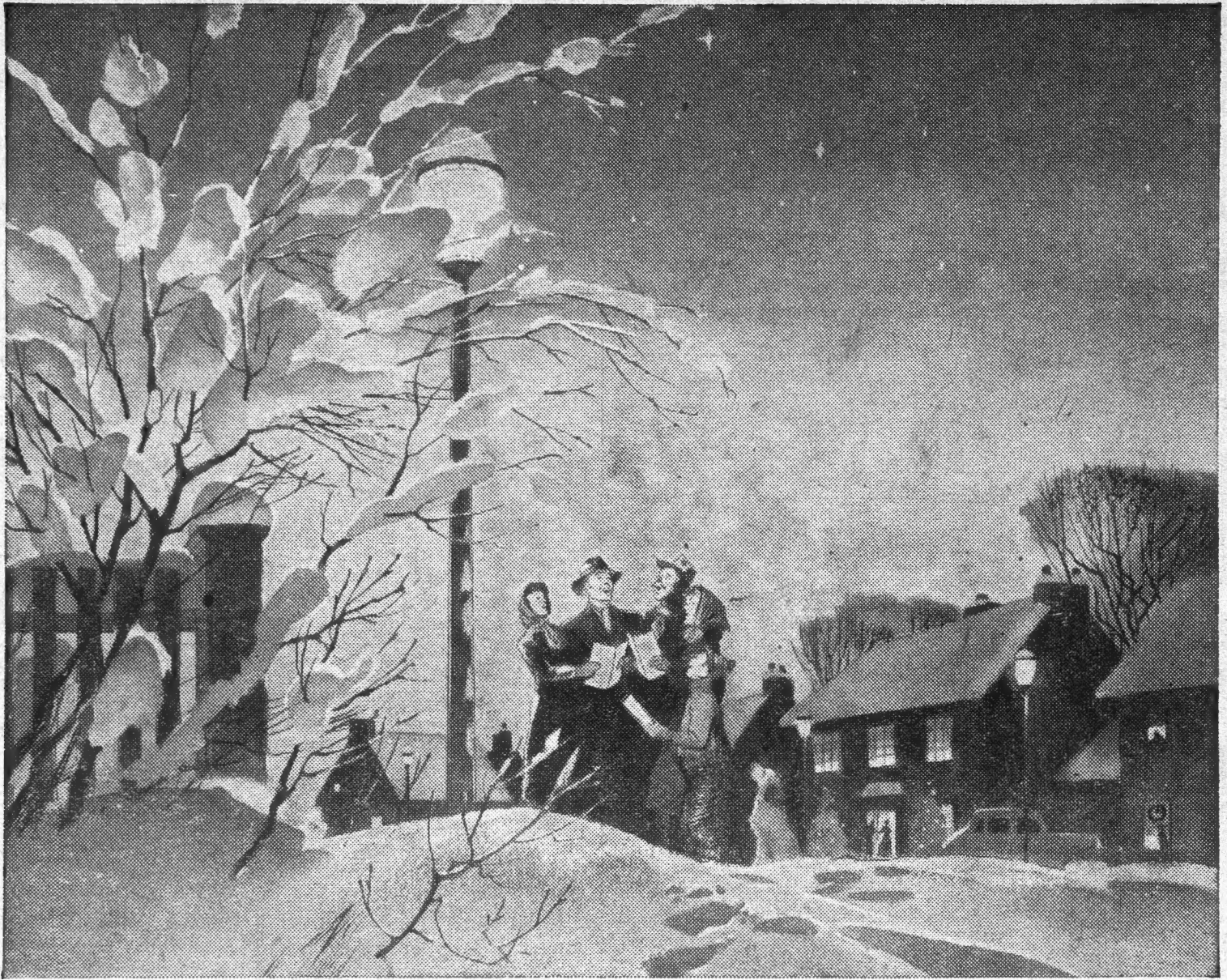
DON'T LET HEAT ESCAPE up the chimney. Use the turn damper to control chimney draft by keeping damper as nearly closed as possible without smoke emerging from the fire door. This operation is important.



DON'T SHAKE GRATES AT NIGHT unless deep ash bed takes room needed for fresh coal. Shake gently and stop when red glow appears in ashpit. Shaking every other day should be often enough in mild weather.

Solution to Last Month's Puzzle

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The Other Christmas

Christmas—a time of candle-light flickering on happy faces, a time of carols and

good cheer, of brightly-wrapped gifts and tinselled trees.

And deep within us all is still another Christmas, the Christmas guiding our every day—

a Christmas born for us of a tolerance and understanding that goes beyond words;

born for us so that men may live in harmony, with purpose to their lives and benevolence

in their hearts . . . This is the *other* Christmas, the spiritual Christmas.

T H E H O U S E O F S E A G R A M



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Are you one of those carol singers start out so bravely on the first lines and then get the mumbles, like

"Good King Wenceslas look'd out,
On the feast of Stephen—
Da-da da-da da da da
Du da du da du du.

There is nothing much that can be done about tone-deaf people who always seem to know all the words and sing carols at the top of their voices. Nor is there any solution for people who can't carry a tune. But it does occur to us that carol singing would be more fun all round if everybody knew the words. So here, to help our readers have more fun, and hence a happier Christmas, are the words to your favorite carols.



Hark! the Herald Angels Sing

Hark! the herald angels sing,
"Glory to the new-born King,"
Peace on earth and mercy mild,—
God and sinners reconciled!"
Joyful, all ye nations, rise,—
Join the triumph of the skies,—
With th' angelic host proclaim,
"Christ is born in Bethlehem!"
Hark! the herald angels sing,
"Glory to the new-born King."

Christ, by highest heaven adored,
Christ, the everlasting Lord,
Late in time behold Him come,
Offspring of the Virgin's womb.
Veiled in flesh the Godhead see;
Hail the Incarnate Deity,
Pleased as Man with man to dwell:
Jesus, our Emmanuel!
Hark! the herald angels sing,
"Glory to the new-born King."

Mild He lays His glory by,
Born that man no more may die;
Born to raise the sons of earth;
Born to give them second birth.
Risen with healing in His wings,
Light and life to all He brings.
Hail, the Son of Righteousness!
Hail, the heaven-born Prince of Peace!
Hark! the herald angels sing,
"Glory to the new-born King."



Silent Night! Holy Night!

Silent night! Holy night!
All is calm, all is bright,
Round yon Virgin Mother and Child!
Holy Infant so tender and mild,
Sleep in heavenly peace,—
Sleep in heavenly peace.

Silent night! Holy night!
Shepherds quake at the sight,
Glories stream from heaven afar,
Heavenly hosts sing Alleluia;
Christ, the Saviour, is born,
Christ, the Saviour, is born.

Silent night! Holy night!
Son of God, love's pure light
Radiant beams from Thy holy face,
With the dawn of redeeming grace,
Jesus, Lord, at Thy birth,
Jesus, Lord, at Thy birth.

head.

The stars in the heavens looked down where
He lay,
The little Lord Jesus, asleep on the hay.

The cattle are lowing, the Baby awakes,
But little Lord Jesus, no crying He makes.
I love Thee, Lord Jesus, look down from the
sky,
And stay by my cradle till morning is nigh.



Good King Wenceslas

Good King Wenceslas look'd out,
On the feast of Stephen,
When the snow lay round about,
Deep and crisp and even;
Brightly shone the moon that night,
Though the frost was cruel,
When a poor man came in sight,
Gath'ring winter fuel.

"Hither, page, and stand by me,
If thou know'st it, telling.
Yonder peasant, who is he?
Where and what his dwelling?"
"Sire, he lives a good league hence,
Underneath the mountain;
Right against the forest fence,
By Saint Agnes' fountain."

"Bring me flesh, and bring me wine,
Bring me pine logs hither;
Thou and I will see him dine,
When we bear them thither."
Page and monarch forth they went,
Forth they went together:
Through the rude winds' wild lament,
And the bitter weather.

"Sire, the night is darker now,
And the wind blows stronger;
Fails my heart, I know not how,
I can go no longer."
"Mark my footsteps, my good page,
Tread thou in them boldly;
Thou shalt find the winter's rage
Freeze thy blood less coldly."

In his master's steps he trod,
When the snow lay dented;
Heat was in the very sod
Which the saint had printed.
Therefore, Christian men, be sure,
Wealth or rank possessing,
Ye who now will bless the poor,
Shall yourselves find blessing.



The First Nowell

The first Nowell the angel did say
Was to certain poor shepherds in fields as
they lay;
In fields where they lay keeping their sheep,
On a cold winter's night that was so deep.
Nowell, Nowell, Nowell, Nowell,
Born is the King of Israel.

They looked up and saw a star,
Shining in the East, beyond them far,
And to the earth it gave great light,
And so it continued both day and night.
Nowell, Nowell, Nowell, Nowell,
Born is the King of Israel.

Come, All Ye Faithful

, all ye faithful,
and triumphant,

O come — ye,
O come — ye to Bethlehem;
Come and behold — Him,
Born the King of angels;
O come, let us adore Him,
O come, let us adore Him,
O come, let us adore Him,
Christ, the Lord.

Sing, choirs of angels,
Sing in exultation;
Sing, all ye citizens of heav'n above:
"Glory to God,
All glory in the highest."
O come, let us adore Him,
O come, let us adore Him,
O come, let us adore Him,
Christ, the Lord.

Yea, Lord we greet Thee,
Born this happy morning;
Jesus, to Thee be all glory giv'n;
Word of the Father,
Now in flesh appearing:
O come, let us adore Him,
O come, let us adore Him,
O come, let us adore Him,
Christ, the Lord.



Joy to the World!

Joy to the world! the Lord is come;
Let earth receive her King;
Let ev'ry heart prepare Him room,
And heav'n and nature sing,
And heav'n and nature sing,
And heav'n and heav'n and nature sing.

He rules the world with truth and grace,
And makes the nations prove
The glories of His righteousness,
And wonders of His love,
And wonders of His love,
And wonders, wonders of His love.



O Little Town of Bethlehem

O little town of Bethlehem,
How still we see thee lie.
Above thy deep and dreamless sleep
The silent stars go by,
Yet in thy dark streets shineth
The everlasting Light;
The hopes and fears of all the years
Are met in thee tonight.

For Christ is born of Mary;
And gathered all above,
While mortals sleep, the angels keep
Their watch of wondering love.
O morning stars, together
Proclaim the holy birth!
And praises sing to God the King,
And peace to men on earth.

O holy Child of Bethlehem,
Descend to us, we pray;
Cast out our sin and enter in,
Be born in us today.
We hear the Christmas angels
The great glad tidings tell;
O come to us, abide with us,
Our Lord Emmanuel!